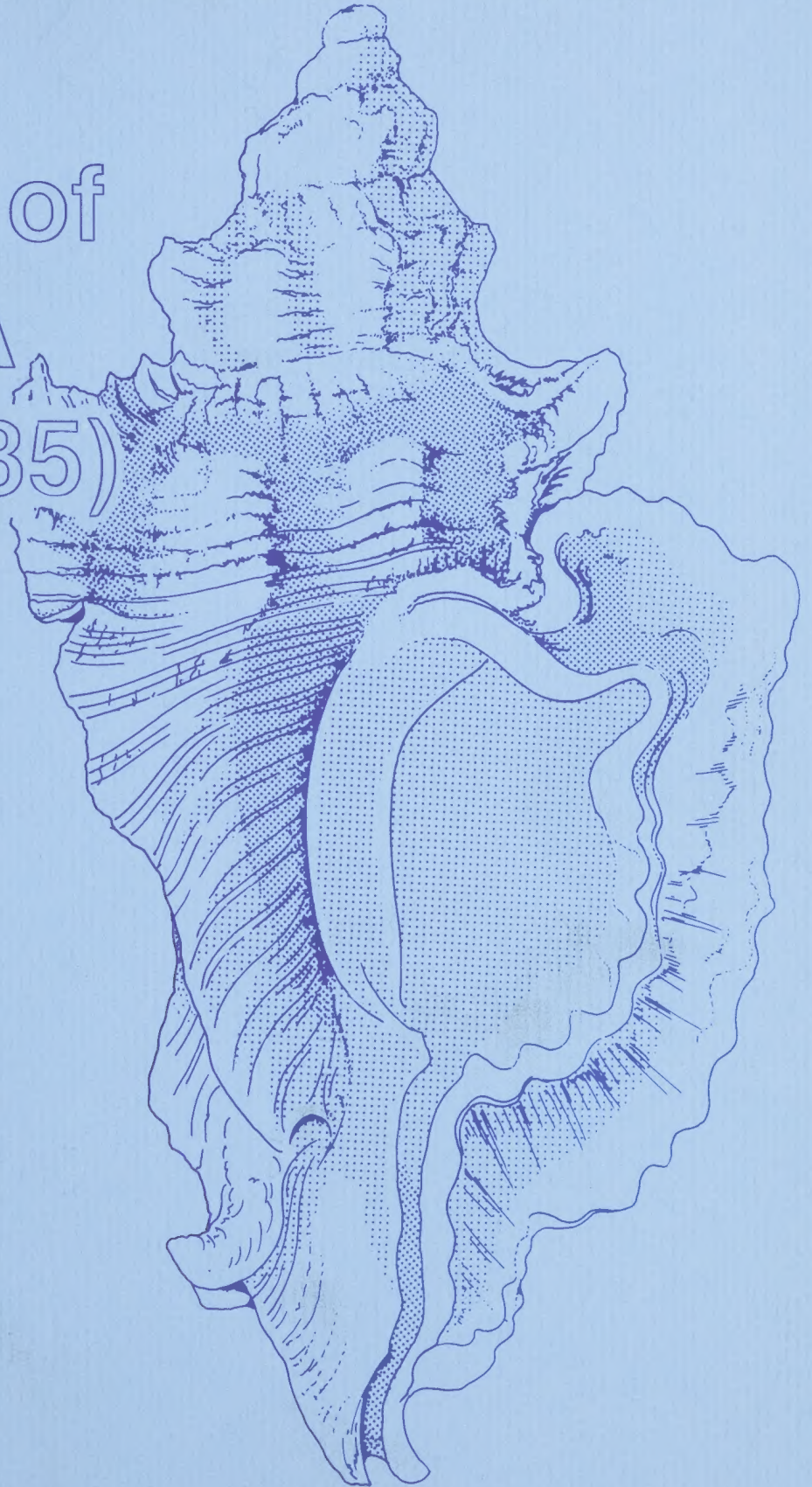


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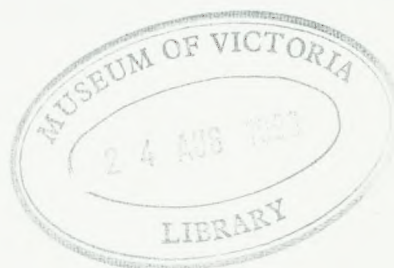
# OCCASIONAL PAPERS

from the

# MUSEUM of VICTORIA

## Vol. 2 (1985)

**MELBOURNE AUSTRALIA**



*Director*     Robert Edwards

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References should be listed alphabetically at the end of the manuscript. Abbreviations must conform with those in *A World List of Scientific Periodicals* (1963-4, 4th edition), Butterworth: London. References to books must give the year of publication, edition, name of publisher and city of publication. Titles of books and abbreviated names of periodicals should be underlined.

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## Volume 2

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# Ectoparasites of some waterfowl (Anatidae) from Victoria

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Abstract. van Mourik, S.C. and Norman, F.I. (1985) Ectoparasites of some waterfowl (Anatidae) from Victoria. *Occ. Pap. Mus. Vict.* 2: 1-3.

Breast feathers, and one wing, from 93 anatids (7 species) shot at two sites in Victoria in 1980 were examined for the presence of ectoparasites. A further 54 chestnut teal (*Anas castanea*), 11 grey teal (*A. gibberifrons*) and 4 Pacific black duck (*A. superciliosa*) were live-trapped and also examined. The lice *Acidoproctus*, *Anaticola*, *Anatoecus*, *Holomenopon*, *Rallicola*, and *Trinoton* spp. were found as were the mites *Alloptoides*, *Bdellorhynchus*, *Freyana* and *Ingrassia* spp., though not from each duck species. Data are compared with previous Australian records and 29 new host-parasite associations are reported.

## Introduction

Ectoparasites of birds have been extensively studied in the northern hemisphere but, whilst some Asian material has been published (McClure et al., 1973), relatively little is known of the ectoparasite burden carried by the Australian avifauna, including waterfowl. Details of the ectoparasites found on some local members of the Anatidae have been summarised (Lapage, 1961), and the listing was extended in studies of waterfowl in north Queensland (Lavery, 1967, 1971). However, we are unaware of recent published Victorian material.

During the opening days of waterfowl hunting seasons large numbers of ducks are shot in Victoria. Some of those killed at two popular hunting areas were examined as were birds trapped in routine banding sessions held at the Serendip Wildlife Research Station, near Geelong. This report summarises our observations.

## Materials and methods

Breast feathers and one wing, detached close to the body, were collected from 89 anatids (6 species: Australasian shoveler *Anas rhynchos*, Australian shelduck *Tadorna tadornoides*, grey teal *A. gibberifrons*, freckled duck *Stictonetta naevosa*, Pacific black duck *A. superciliosa*, pink-eared duck *Malacorhynchus membranaceus*) shot at Lake Buloke, near Donald, Victoria on 1 March 1980. The same material was taken from 4 chestnut teal (*Anas castanea*) obtained at Dowds Morass, near Sale, on the same day. Wings were placed individually in a clear plastic bag, as were the samples of breast feathers, before transport to the laboratory. Each wing was examined under a low-power (to 20×) stereo-microscope and indi-

vidual lice and mites were removed, by fine brush, and stored in 70% ethanol until identified. Breast feathers were pooled for each species following cursory examination and then immersed (Watson and Amerson, 1967), sieved and ectoparasites recovered and fixed in alcohol.

At Serendip waterfowl were caught in grain-baited traps (26 August, 7 October, 3 December 1980). Samples trapped included 54 chestnut teal, 11 grey teal and 4 Pacific black duck; a few Eurasian coot (*Fulica atra*) were also caught during these sessions. For the trapped birds an attempt was made to obtain ectoparasites from the whole body. Ducks were thoroughly dusted with pyrethrum and placed in individual plastic bags for about 10 minutes whilst feathers were continually disturbed; their heads, which were retained outside of the bags, were closely examined for ectoparasites during this time. Following the release of the birds the bags were examined; ectoparasites present were removed and placed in ethanol.

Artificial wooden nest boxes used by breeding chestnut teal at Serendip were also dismantled and the debris searched for potential ectoparasites.

## Results

The ectoparasites collected from the wings and breast feathers in seven pools, from 93 ducks, were identified and the results are summarised in Table 1. The identified material has been deposited with the Museum of Victoria. Whilst some of the Mallophaga were found in coverts of the major flight feathers (primaries and secondaries), their eggs were also found along feather shafts, which was also the location of mites when present. The



Table 1. Ectoparasites recorded from shot and live-trapped waterfowl in Victoria, 1980. Comparison is made with previous records made for the same species: a, Lapage, 1961; b, Lavery, 1967, 1971. c, shot birds; d, trapped birds.

Ectoparasites	Australasian shoveler	Australian shelduck	Chestnut teal	Freckled duck	Grey teal	Pacific black duck	Pink-eared duck
<b>Mallophaga</b>							
<i>Acidoproctus</i> sp.				c			
<i>Anaticola</i> sp.	c	c	c,d		b,d	b,c	c
<i>Anaticola crassicornis</i>	c		d		b,d	b	
<i>Anatoecus</i> sp.			d		b		
<i>Holomenopon</i> sp.	c	c			b		c
<i>Rallicola fulica</i>					d		
<i>Trinoton</i> sp.	c	c		c	b,c,d	b,c	c
<i>Trinoton querquedula</i>		c	c,d	c	b,c,d	b	c
<b>Acarina</b>							
<i>Alloptoides</i> sp.			d				
<i>Bdellorhynchus</i> sp.			d				
<i>Bdellorhynchus polymorphus</i>					c,d	c	
<i>Freyana</i> sp.			d		d		
<i>Freyana largifolia</i>	a		c,d		a,c,d		
<i>Freyana microchaeta</i>							a,c
<i>Ingrassia</i> sp.			d		d		
<b>Number of ducks examined</b>							
- shot	18	10	4	3	25	8	25
- trapped	-	-	54	-	11	4	-

pyrethrum-dusting of trapped birds (Table 1) uncovered additional species of lice and particularly mites; however, no mites were found around the ear or nasal cavities.

None of the mallophagan or acarine species found on shot or wild-trapped chestnut teal was found in the nest boxes at Serendip.

## Discussion

Results presented above from ducks collected in Victoria considerably extend the range of acarine and mallophagous parasites previously recorded from the same species of waterfowl sampled elsewhere (cf. Lapage, 1961; Lavery, 1967). Indeed, examination of the relatively small number of ducks involved in this survey provided an additional 29 host-parasite associations. Apart from *Anatoecus* and *Holomenopon* spp. on grey teal, *Trinoton querquedula* on Pacific black duck, *Freyana largifolia* on the Australasian shoveler, *F. australis* on the freckled duck (Lavery 1967; McClure, 1973), and *Saemundssonina minitrans* on the pink-eared duck (Timmermann, 1977), all associations recorded by earlier investigations were duplicated.

We found no ectoparasites specific to the endemic (those recorded have been found on other anatids) genera *Stictonetta* and *Malacorhynchus*, and there was little difference between the lice and mites found on the related grey and chestnut teal. Indeed, many of the genera of mallophagans, and some of the same species, recorded here have also been recorded from ducks of the genus *Anas* in both North America (Broderson et al., 1977; Lapage, 1961) and Asia (McClure et al., 1973). The

probable arrival of most species of *Anas* into Australia via an Indo-Malaysian route (Rich, 1975), and the close relationship between *A. superciliosa* and the Indo-Asian spot-bill (*A. poecilorhyncha*) species group (Johnsgard, 1975) is supported by the affinities shown by the ectoparasites. The grey teal, one of the most nomadic of Australian anatids, may offer a route for ectoparasites to enter the species within the Australian duck 'pool.' Acting as a vector, its nomadic habits and adaptability to a wide range of habitats allows frequent overlap with the range of other local species.

This note has shown the possibility of using waterfowl shot during open seasons as a source of ectoparasite material. Apart from problems associated with cross-infection, which could be eliminated, the opportunity exists for further examination of the ectoparasite fauna to be found on Australian waterfowl, particularly on the endemic freckled and pink-eared ducks. Clarification of the host-parasite relationships and of the origin of the host species might ensue.

## Acknowledgements

We thank Dr J. Gaud (Laboratoire de Parasitologie, Faculté de Médecine, Nice-cedex, France) and Mr C. Lyal (British Museum (Natural History), England) for their advice and for their identifications of specimens of Acarina and Mallophaga respectively. The work of the senior author was partially supported by the Victorian Fisheries and Wildlife Division whilst holding a Rotary Foundation scholarship.

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# Monacanthid fishes of Victoria, Australia

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Abstract. Russ, G., and Newman, L. (1985) Monacanthid fishes of Victoria, Australia. *Occ. Pap. Mus. Vict.* 2: 5-19.

A list of diagnostic features of the eighteen species of Victorian monacanthid fishes is provided, together with a brief description and illustration of each species.

## Introduction

Monacanthids are a family of marine fishes contained within the order Tetraodontiformes. The family name derives from *monas* - (one) and *akantha* - (spine) and refers to the single dorsal erectile spine (Fig. 1). These fishes have highly-modified, small and densely-packed scales giving the skin a leathery texture; hence the common name of leatherjacket. The monacanthids are a diverse group, with 54 species being recorded from the Australian coastline; of these 18 occur in Victoria (Hutchins, 1977). They are among the most abundant and conspicuous of rocky reef fishes, occurring also in estuaries and seagrass beds. They are prized by spear-fishermen and anglers as food fish. Ecological information on the family has been provided by Bell et al. (1978), Last (1983) and Russ (1983a, b).

This paper provides a list of diagnostic features of Victorian monacanthids (Table 1). The table is derived from the major revision of the family with accompanying key to genera by Hutchins (1977). In addition to the table a brief description and illustration of each species is provided. Where possible, references to published colour underwater photographs are given to aid divers in identification of monacanthids in the field.

## Descriptions of species

In each description D, A and P refer to dorsal, anal and pectoral rays respectively. An estimate of maximum total length is provided also. The colour patterns described are

of living specimens. All figures were drawn by the second author.

*Brachaluteres jacksonianus* (Quoy & Gaimard)  
(Pigmy leatherjacket) Fig. 5.

D.24-28. A.22-26. P.11. 10 cm. Dorsal spine lacks barbs, being densely covered with fine granules. Body depth more than half the length without the tail. Pelvic bony structure absent. Pelvic flap long and belly inflatable. Colour of body variable. Base colours may be green, brown, yellow or grey with dark lines and spots. Common in bays, estuaries, inlets, and on shallow (5-10 m depth) coastal reefs. See Coleman (1980), Edgar et al. (1982), Kuiter (1978).

*Eubalichthys mosaicus* (Ramsay & Ogilby)  
(Mosaic leatherjacket) Fig. 6

D.34-39. A.32-36. P.12-14. 60 cm. Adult females and juveniles are deep-bodied and compressed, the depth more than half the length without the tail. Adult males have elongate, oval shaped bodies. Both sexes have a body colour of yellow with a distinctive pattern of longitudinal blue lines or bluish with yellow blotches. Adult females and juveniles are found on shallow coastal reefs and in estuaries. Large males are solitary and tend to inhabit deeper (10-15 m) offshore reefs. See Coleman (1980), Hutchins (1979, 1980), Kuiter (1978).

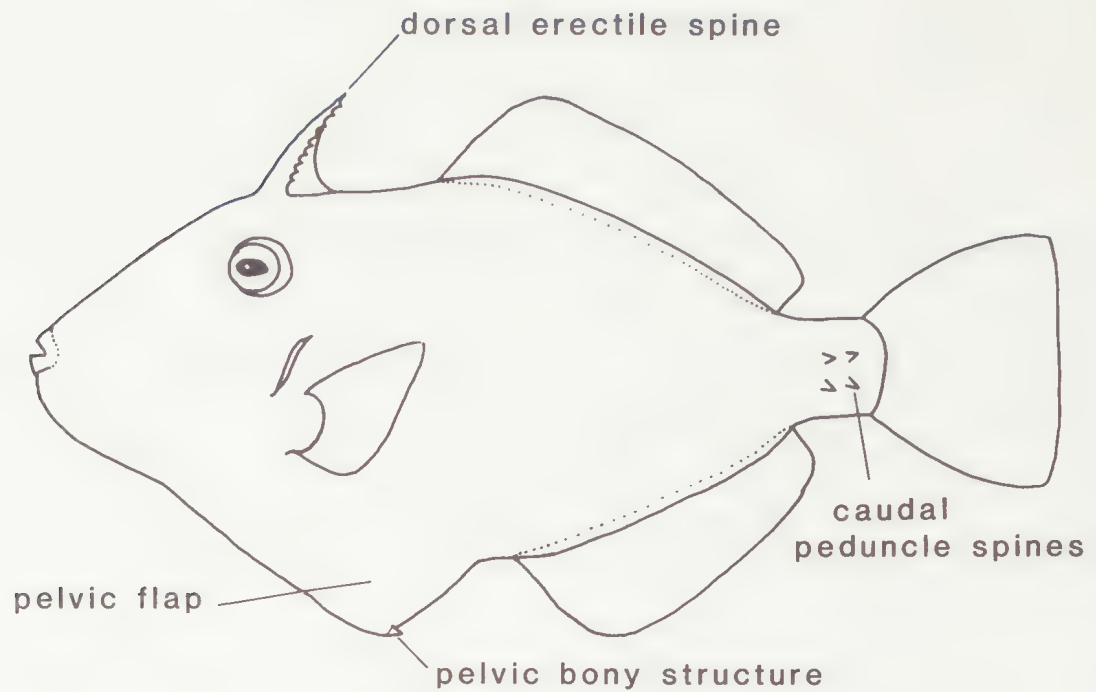


Fig. 1. Diagram of the main characteristics of monacanthid fishes referred to in Table 1.

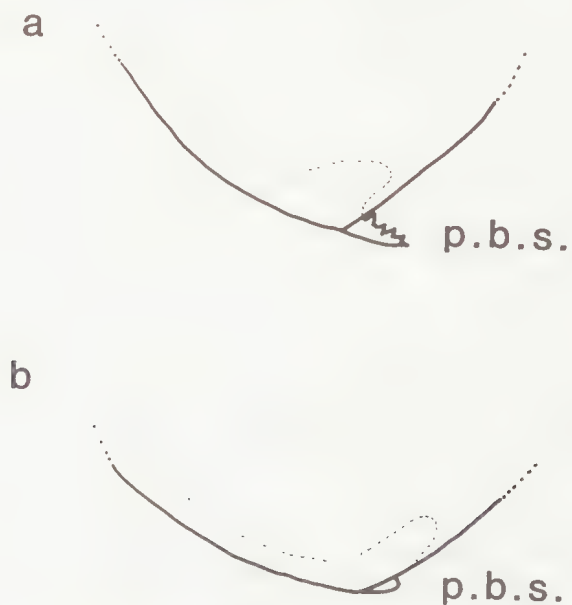


Fig. 2. Diagrams showing the location of the pelvic bony structure (p.b.s.) on the pelvic flap. The dotted line represents the outline of the hidden pelvic bone (after Hutchins, 1977). *a*, p.b.s. located at posterior termination of pelvis. *b*, p.b.s. located anterior to posterior termination of pelvis.

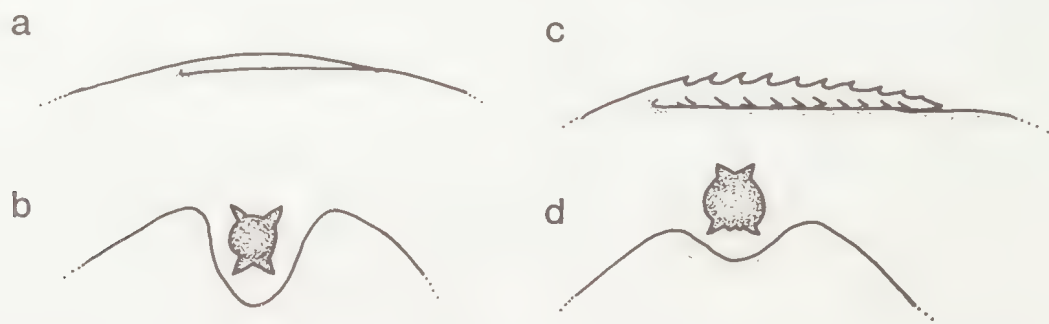


Fig. 3. Diagrams showing the position of the dorsal erectile spine in the relaxed position. *a*, *c*, lateral view. *b*, *d*, transverse section. *a*, *b* represent a deep spinal groove; *c*, *d*, represent a shallow spinal groove.



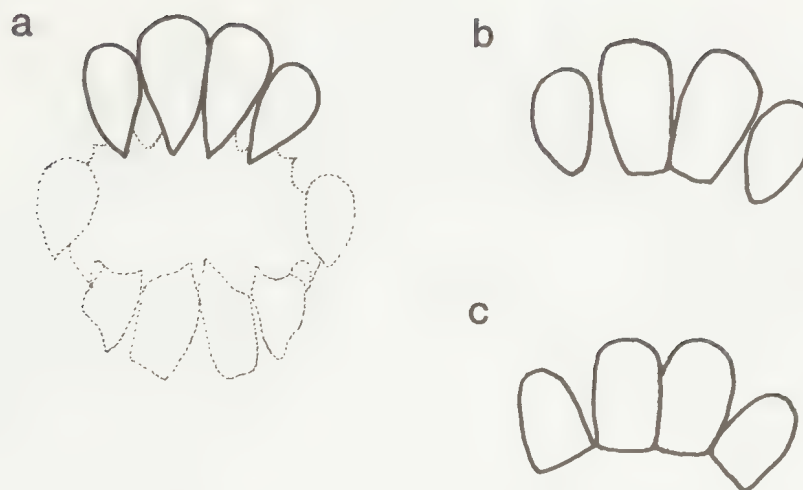


Fig. 4. Diagrams showing the four central front teeth in the upper jaw (viewed from the anterior position) of a, *Bigener brownii*; b, *Penicipelta vittiger*; c, *Acanthaluteres spilomelanurus*.

*Eubalichthys gunnii* (Günther)  
(Gunn's leatherjacket) Fig. 7

D.33-36. A.31-35. P.12-15. 45 cm. The body of this species (and the next, *E. bucephalus*) is more elongate than that of the adult females and juveniles of *E. mosaicus*. Adult females and juveniles have a distinctive reticulated pattern of dark and light brown blotches and white lines. Adult males are dull brown to greenish. Juveniles and sub-adults are found on shallow coastal reefs and in bays and estuaries. Larger adults are solitary and inhabit deeper (10-15 m) offshore reefs. See Coleman (1980), Edgar et al. (1982), Kuiter (1978).

*Eubalichthys bucephalus* (Whitley)  
(Black Reef leatherjacket). Fig. 8

D.36-39. A.36-38. P.12-13. 50 cm. The colour of the body is evenly dark brown to black or occasionally pale with several dark longitudinal stripes. The species is readily identifiable by the distinctive white ring surrounding the eye. Juveniles are covered with dark spots and occur on shallow inshore reefs, often near pier pilings. The adults often are seen in pairs on deep (10-15 m) coastal and offshore reefs. See Coleman (1980), Kuiter (1978).

*Bigener brownii* (Richardson)  
(Spiny-tailed leatherjacket) Fig. 9

D.31-33. A.29-31. P.11. 45 cm. Skin smooth, consisting of small, very close-set spines. The dorsal spine fits into a deep groove when depressed. There are two pairs of spines on each side of the caudal peduncle. In adult males the caudal spines are large and have a distinct yellow patch at their base. A large patch of bristle-like small spines is often present in front of these caudal spines. The spines on the caudal peduncle are small in adult females and juveniles. Colour of body green. A large area of longitudinal blue lines on the chin and around the pectoral fin, the lines blending into blue dots on the side. These lines are far less distinct in adult females and

juveniles. Occurs in shallow and deep (10-15 m) coastal reefs but is not common. See Kuiter (1978), Scott et al. (1980).

*Penicipelta vittiger* (Castelnau)  
(Toothbrush leatherjacket). Fig. 10

D.33-35. A.32-33. P.13. 35 cm. Skin very coarse. The dorsal spine fits into a deep groove when depressed. Snout somewhat produced. Adult males have a toothbrush like patch of bristles on the side of the body. Adult females and juveniles lack this patch of bristles. Adult males are blue anteriorly with a white, oblique bar running from behind the eye to the anterior edge of the patch of bristles. The base of this patch of bristles and the caudal peduncle are yellow. Adult females and juveniles have a concave snout and are brown to green, often with a mottled pattern of white spots. The juveniles form large aggregations in shallow beds of seagrasses and kelps and are often particularly abundant near piers in southern Port Phillip Bay during the summer months (Russ, 1983a). Adults are occasionally seen on shallow coastal reefs but usually inhabit reefs in deeper waters. See Coleman (1980), Edgar et al. (1982), Hutchins (1979, 1980), Kuiter (1978).

*Acanthaluteres spilomelanurus* (Quoy & Gaimard)  
(Bridled leatherjacket) Fig. 11

D.28-30. A.27-29. P.10-11. 15 cm. Body elongate and compressed, not very deep. Dorsal spine short, received into a deep groove when depressed. Pelvic bony structure small and indistinct. No spines on the caudal peduncle and no bristles on the side. Colour of body greenish above, lighter below. Blue spots on the belly, above the anal fin, below the dorsal fin and on the caudal peduncle. An iridescent blue, black-edged line from the chin, passing through the eye to the middle of the side. A dark line above this from the eye to the snout. A yellow line from the chin to the pectoral fin, continuing to the posterior end of the anal fin. Caudal fin yellow with a vertical black band near the margin. Common in seagrass and



Fig. 5. *Brachaluteres jacksonianus*, male.

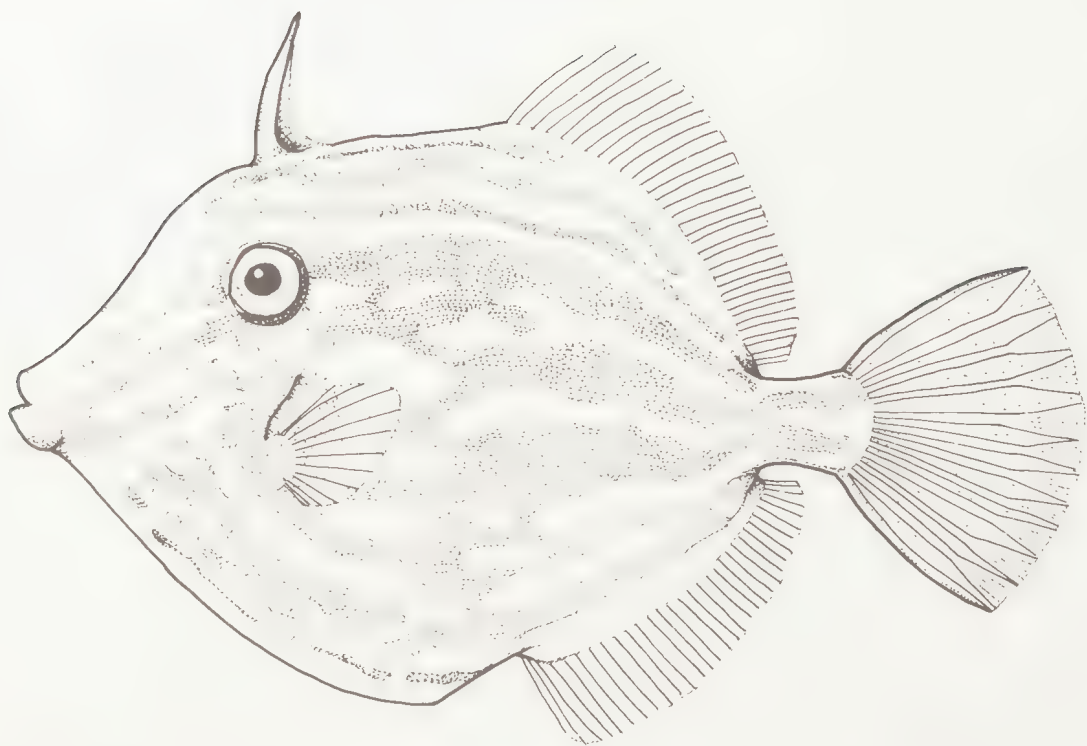


Fig. 6. *Eubalichthys mosaicus*, female.

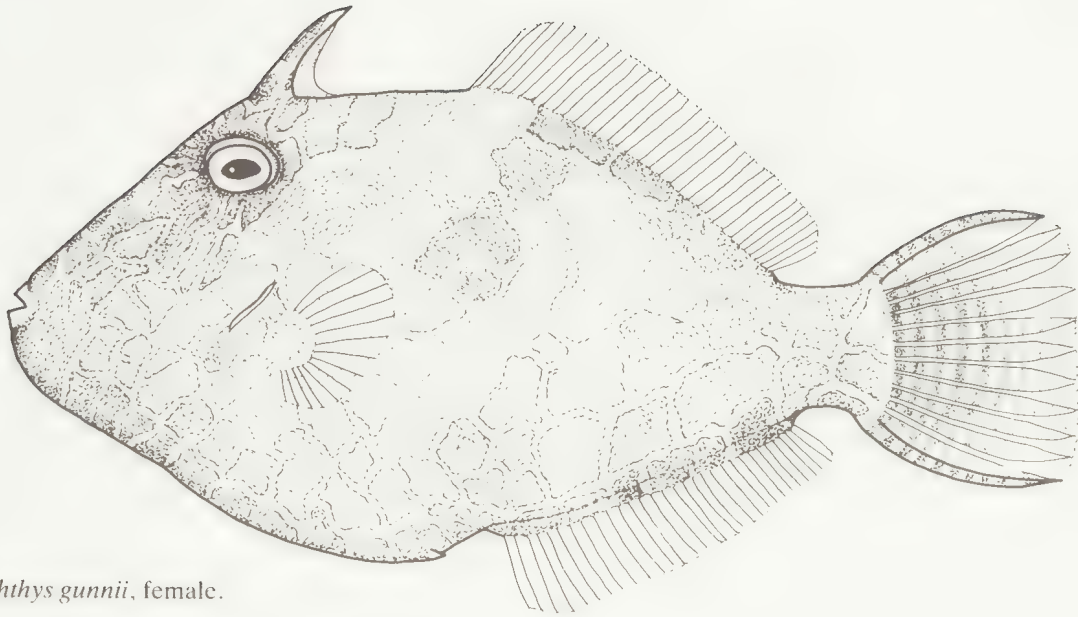


Fig. 7. *Eubalichthys gunnii*, female.

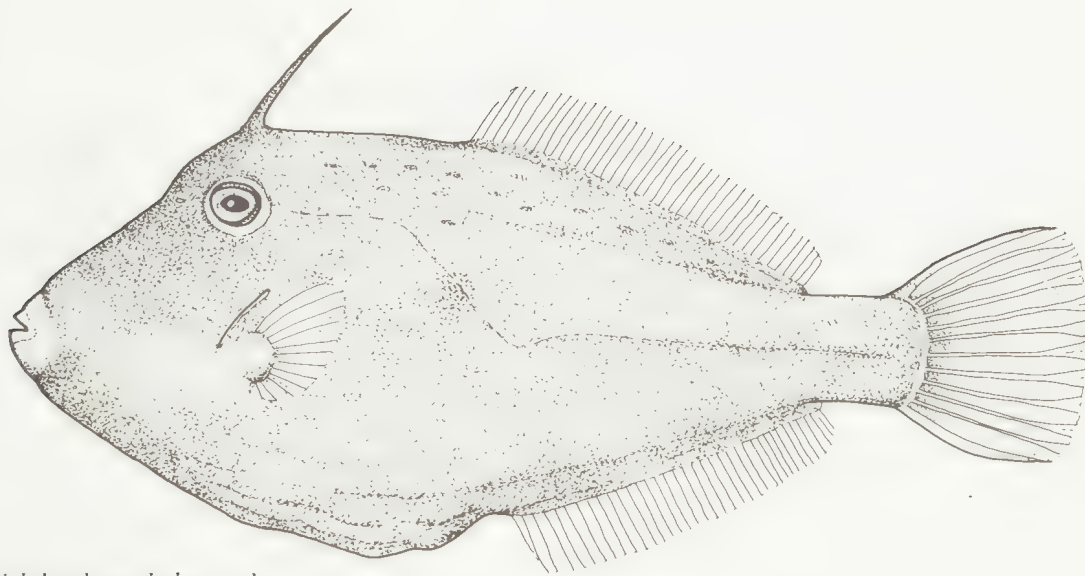


Fig. 8. *Eubalichthys bucephalus*, male.

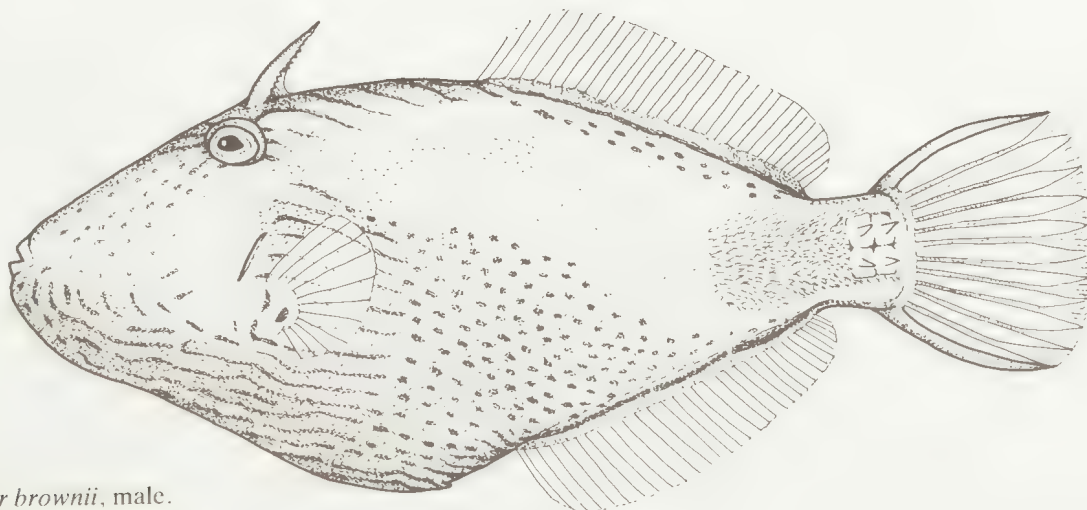


Fig. 9. *Bigener brownii*, male.



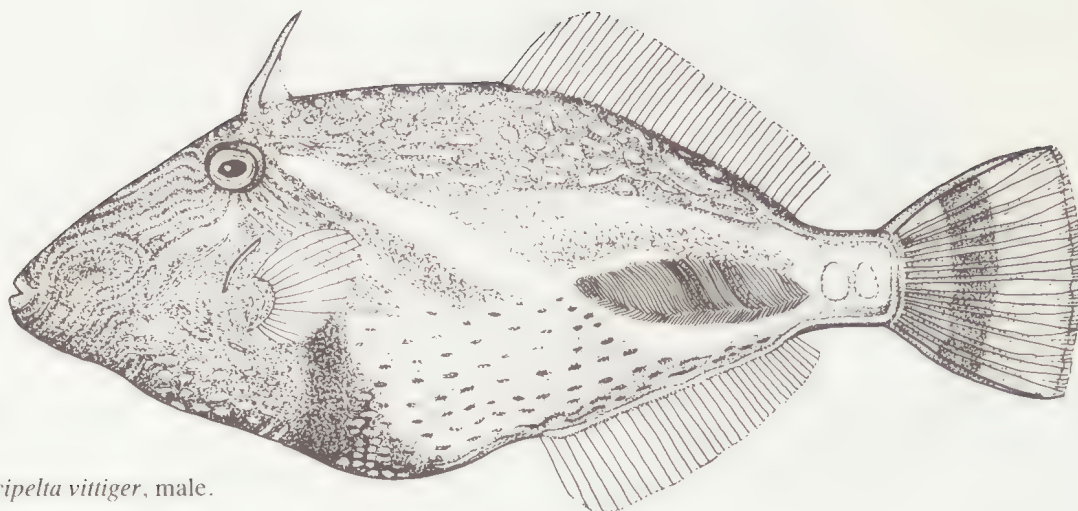


Fig. 10. *Penicipelta vittiger*, male.

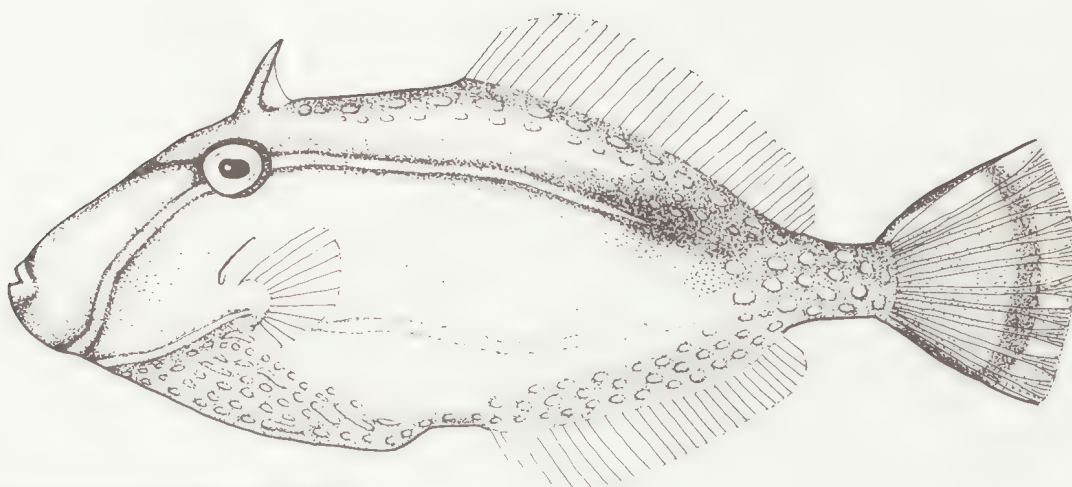


Fig. 11. *Acanthaluteres spilomelanurus*, male.

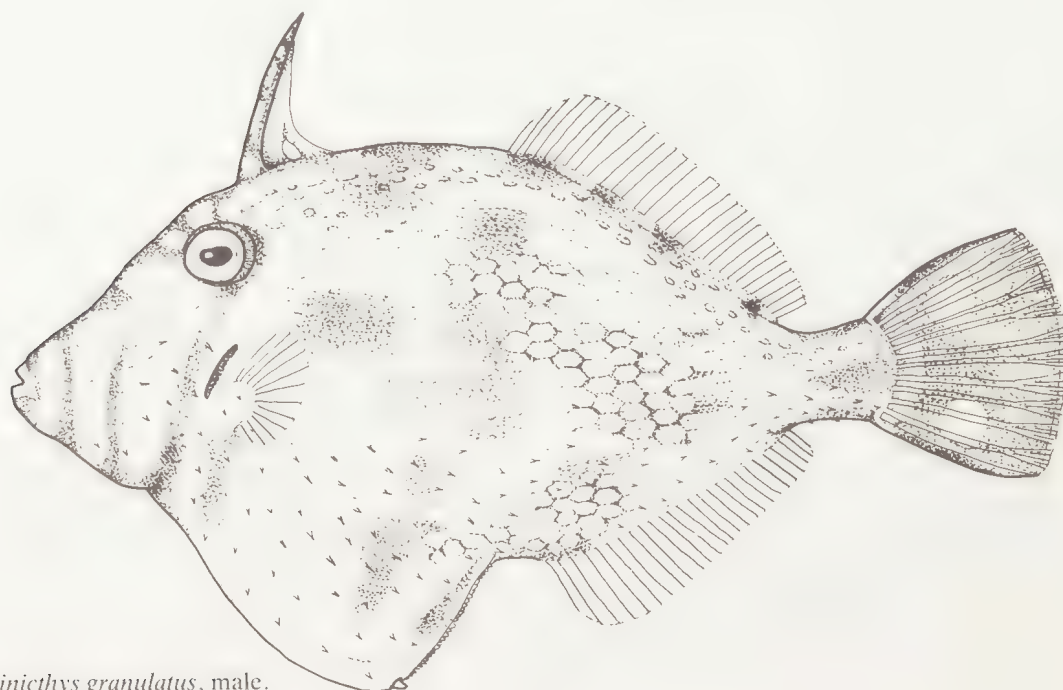


Fig. 12. *Scobinichthys granulatus*, male.

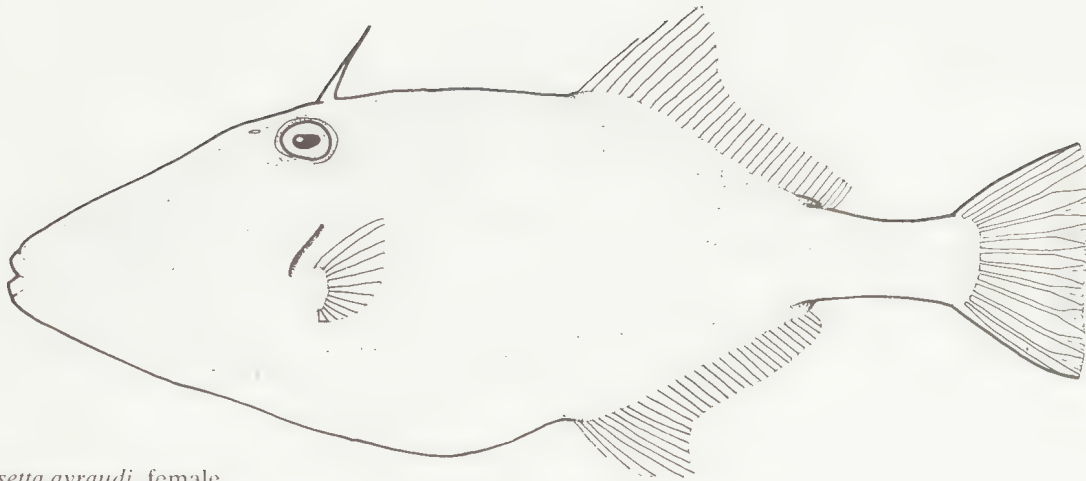


Fig. 13. *Nelusetta ayraudi*, female.

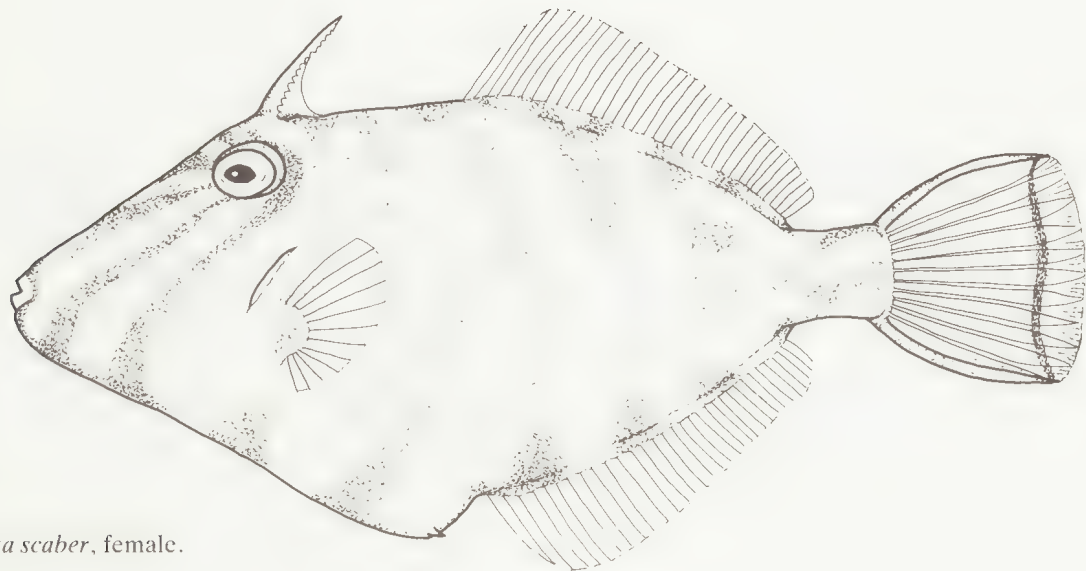


Fig. 14. *Parika scaber*, female.

kelp beds on shallow (5-10 m) reefs and around piers. See Edgar et al. (1982), Kuiter (1978), Scott et al. (1980).

*Scobinichthys granulatus* (Shaw)  
(Rough leatherjacket) Fig. 12

D.28-31. A.26-29. P.12. 35 cm. Skin very coarse often with numerous dermal filaments. Large pelvic flap usually capable of moving vertically through an arc of 40° or more. No spines on caudal peduncle. There are three dark lines across the forehead between the eyes. Colour of body green to brown with darker blotches and spots. Blue spots and lines on the pelvic flap, above the anal fin and below the dorsal fin. Caudal fin brown with a white blotch in the upper and lower portions. Common in estuaries and seagrass and kelp beds on shallow (5-10 m) coastal reefs. See Coleman (1980), Hutchins (1979), Kuiter (1978).

*Nelusetta ayraudi* (Quoy & Gaimard)  
(Chinaman leatherjacket) Fig. 13

D.31-32. A.31-33. P.13. 100 cm. Skin very smooth. Elongate head and body, head length much greater than body depth in juveniles and young adults. Small dorsal spine. The anterior rays of the dorsal and anal fins are longer than the posterior rays. Caudal peduncle longer than deep and with no spines. Caudal fin truncate. Adults range in colour from grey to yellowish-brown. All fins are bright yellow. Juveniles and young adults have four longitudinal brown stripes along the head and body. Common on offshore reefs in deep water (10-15 m). See Coleman (1980), Kuiter (1978), Scott et al. (1980).



Fig. 15. *Thamnaconus degeni*, male.

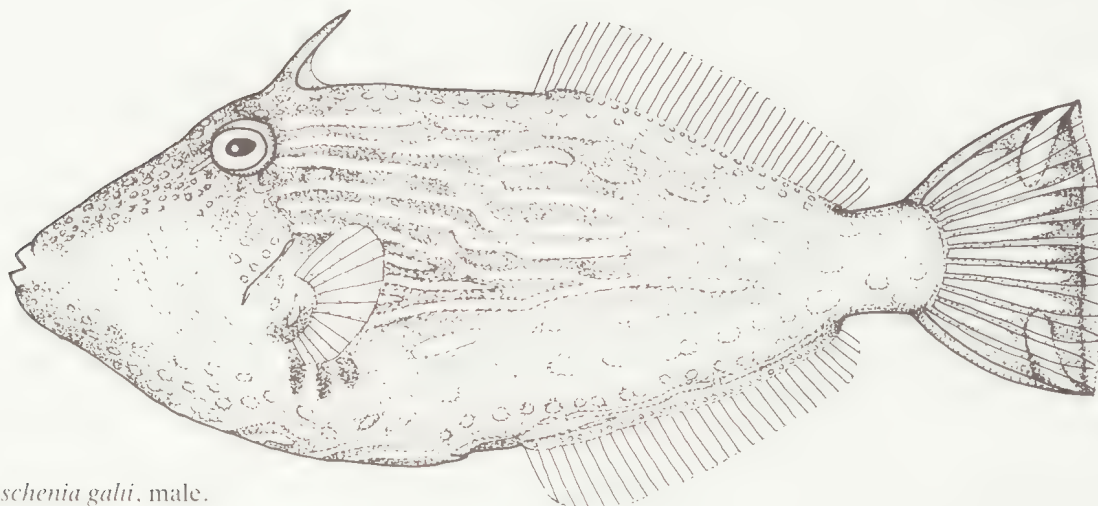


Fig. 16. *Meuschenia galii*, male.

*Parika scaber* (Forster)  
(Velvet leatherjacket) Fig. 14

D.33-35. A.31-36. P.12. 30 cm. Body covered with small closely-set spines, giving the skin a velvety feel to the touch. A narrow black bar is present on the posterior quarter of the caudal fin, a feature more prominent in the male than the female. The anterior rays of the dorsal and anal fins are larger than the posterior ones in males only. The colour of the body is light brown to grey often with prominent dark brown blotches, and sometimes with several dark stripes radiating from the eye to the snout and throat. In Victoria this species is very common on deep (10-15 m) offshore reefs. See Coleman (1980), Edgar et al. (1982), Kuiter (1978).

*Thamnaconus degeni* (Regan)  
(Blue-spotted leatherjacket) Fig. 15.

D.34. A.32-33. P.14. 20 cm. The anterior rays of the dorsal and anal fins are longer than the posterior ones in

both sexes. Pelvic bony structure prominent. Body colour light brown to grey with large blue spots on the snout, behind the eye, on the caudal peduncle and distributed sparsely on the body. There is a bright blue line at the base of the dorsal fin. All fins are blue in both sexes. This species prefers offshore conditions such as Bass Strait and the middle of Port Phillip Bay, with juveniles schooling with other species near piers in both Port Phillip Bay and Western Port (R.H. Kuiter, pers. comm.). See Edgar et al. (1982).

*Meuschenia galii* (Waite)  
(Blue-lined leatherjacket) Fig. 16.

D.32-35. A.30-33. P.11-12. 40 cm. Body elongate, not very deep. No spines on caudal peduncle. Colour of the body varies from dark green to brown. Distinctive colour pattern of numerous blue lines and spots, the lines running longitudinally on the body and obliquely on the head. The caudal fin is yellowish-orange with a bright blue bar in the upper and lower section. In adult males the



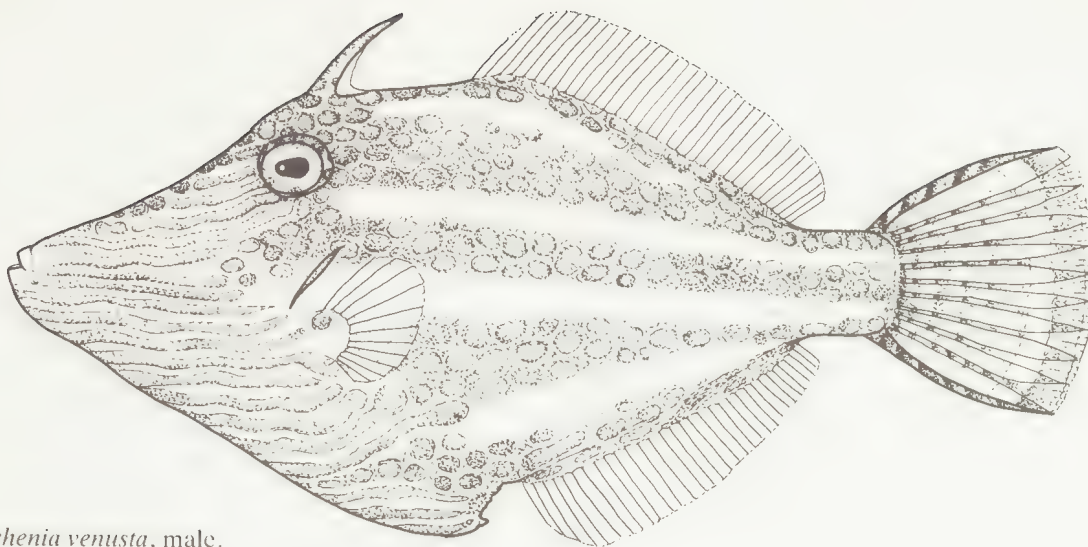


Fig. 17. *Meuschenia venusta*, male.

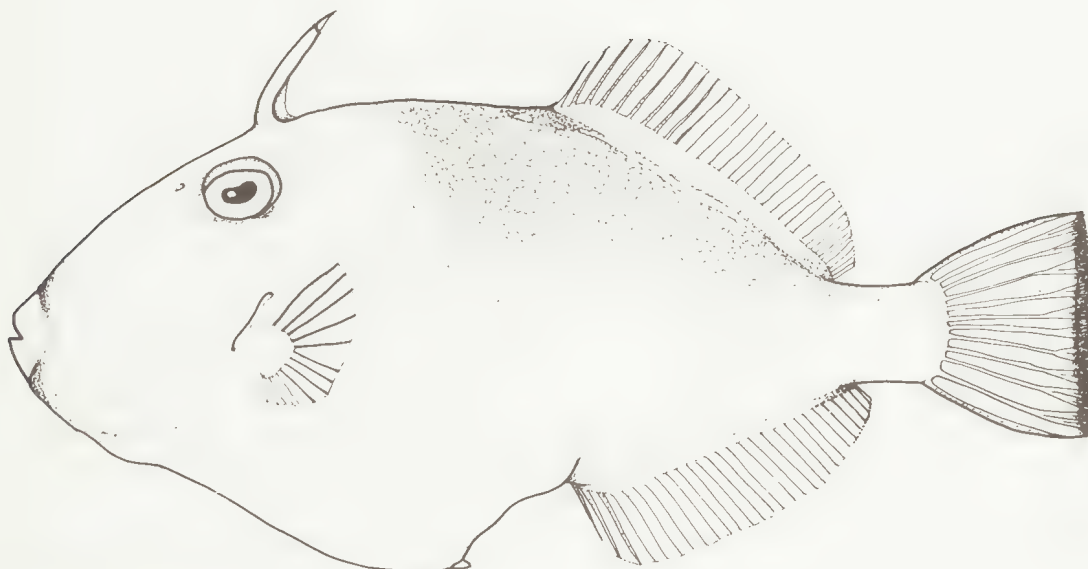


Fig. 18. *Meuschenia australis*, male.

posterior margin of the caudal fin is blue. Common amongst kelps on shallow (5-10 m) coastal reefs. See Coleman (1980), Hutchins (1979), Kuiter (1978).

*Meuschenia venusta* Hutchins  
(Stars-and-stripes leatherjacket) Fig. 17

D.34. A.31-32. P.12. 15 cm. Upper profile of snout concave. No spines on caudal peduncle. Skin very coarse. Colour of the body white with 4 to 5 brown, longitudinal bands, each band consisting of closely packed golden-yellow spots, each spot about the size of the pupil of the eye. Head with numerous horizontal, golden-yellow stripes. Caudal fin yellow to green with a white vertical bar in posterior half of fin. Occurs on offshore reefs along the entire southern coast (R.H. Kuiter, pers. comm.). See Coleman (1980).

*Meuschenia australis* (Donovan)  
(Southern leatherjacket) Fig. 18

D.34-38. A.30-37. P.13-15. 35 cm. No spines on caudal peduncle. Adult males have a convex outline to the forehead and a black bar along the posterior margin of the caudal fin, features less distinct in females. Colour of the body brown with a yellowish tinge on the head. There is a thin white line along the base of the dorsal fin and a thin blue line at the base of the anal fin. The mouth is ringed by a blue to brown line. Females and occasionally males have three longitudinal brown stripes dorsally. The head and breast of females are generally covered with brown spots. The fins of both sexes are green. This is a Tasmanian species which is occasionally seen amongst kelp forests of Wilsons Promontory. See Coleman (1980), Edgar et al. (1982), Hutchins (1980).

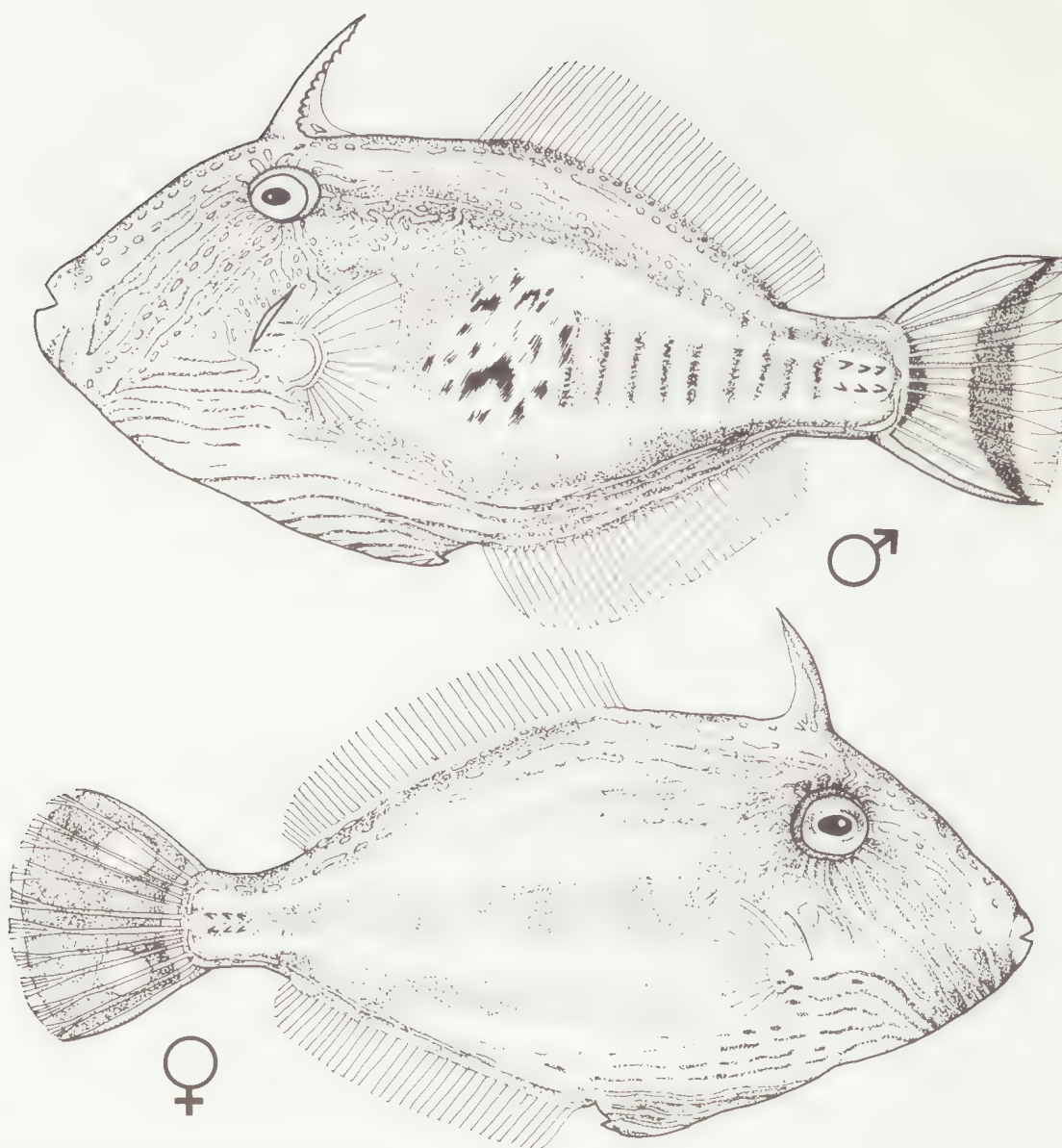


Fig. 19. *Meuschenia freycineti*, male and female.

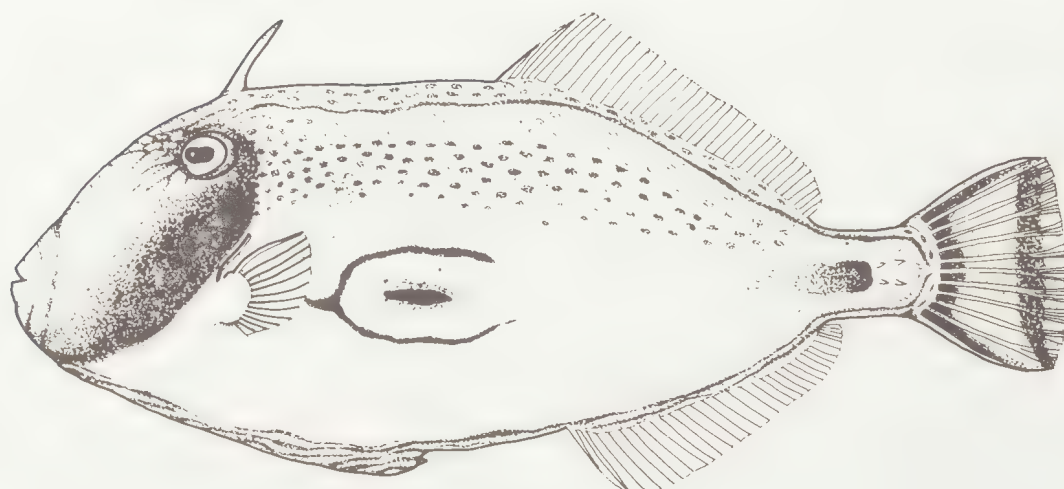


Fig. 20. *Meuschenia hippocrepis*, male.

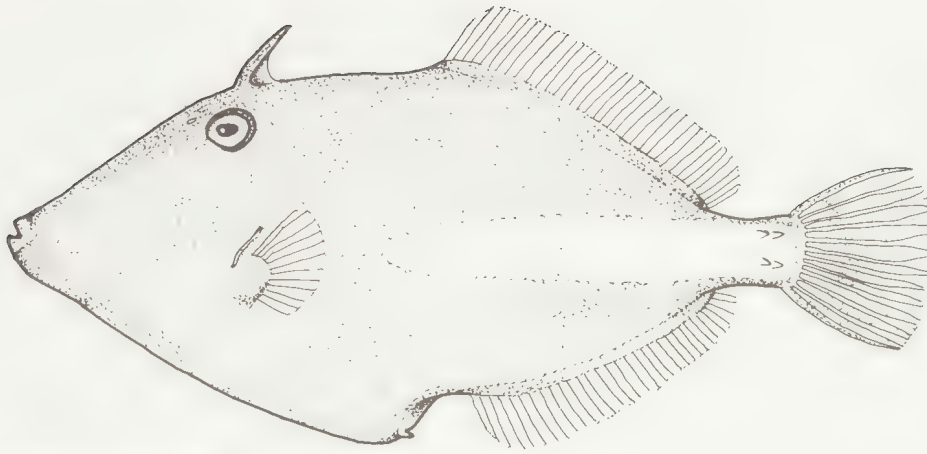


Fig. 21. *Meuschenia flavolineata*, male.

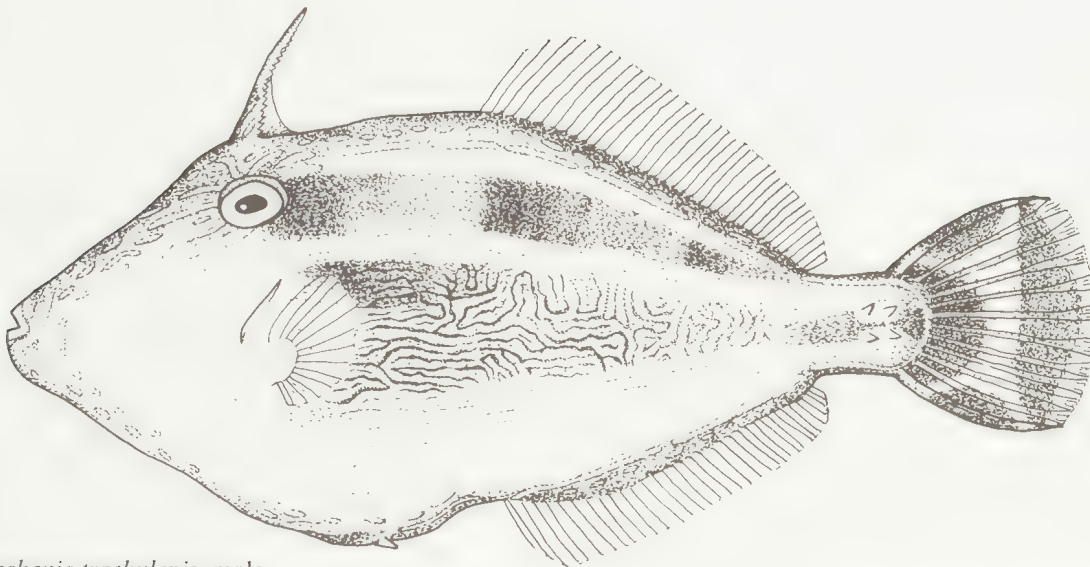


Fig. 22. *Meuschenia trachylepis*, male.

*Meuschenia freycineti* (Quoy & Gaimard)  
(Six-spined leatherjacket) Fig. 19

D.34-39. A.32-37. P.13-14. 60 cm. Six spines (range 5 to 8) on each side of the caudal peduncle, large in males, smaller in adult females and juveniles. Dorsal and anal fins yellow. The colour patterns of the two sexes are quite different. Adult males have a body colour of blue with iridescent blue lines and spots at the bases of the fins and on the head, forming the characteristic scribbled markings on the head. There is generally a large yellow blotch enclosing several smaller brown blotches on the side of the body, although this may be dull in colour or even absent in some individuals. The caudal fin is light blue with a dark blue bar on the upper and lower margins and a blue bar curving through the posterior third of the fin. The adult females and juveniles have iridescent, longitudinal blue lines forming a scribbled pattern on the cheek and head, but this is less distinct in juveniles. The colour of the body is light brown to grey with three to four dark

brown longitudinal stripes along the sides. The caudal fin is dark green with a blue blotch in the upper and lower sections and a blue posterior margin. Juveniles are common in seagrass and kelp beds in estuaries and bays. Adults are common on deeper (10-15 m) offshore reefs. See Coleman (1980), Edgar et al. (1982), Hutchins (1980), Kuiter (1978).

*Meuschenia hippocrepis* (Quoy & Gaimard)  
(Horseshoe leatherjacket) Fig. 20

D.34-37. A.32-35. P.13. 60 cm. Two pairs of spines on each side of the caudal peduncle, large in adult males, smaller in adult females and juveniles. Colour of body olive-green to blue above, lighter below. Thin, wavy blue lines on the body near the dorsal and ventral margins. Blue band encircling the mouth and blue spots behind the eye. A large yellow patch containing a distinctive, black horseshoe-shaped mark on the side of the body behind the pectoral fin, the horseshoe-shaped mark enclosing a



black blotch. This horseshoe-shaped mark is present in both sexes. The adult male has a black bar running obliquely across the cheek. The caudal fin is blue with a broad, dark blue to black bar curving through its posterior half. Common in both shallow and deep coastal reefs. See Coleman (1980), Edgar et al. (1982), Hutchins (1979, 1980), Kuiter (1978).

*Meuschenia flavolineata* Hutchins  
(Yellow-striped leatherjacket) Fig. 21

D.33-37. A.31-35. P.11-12. 30 cm. Snout pointed, outline of forehead slightly concave. Two pairs of spines on each side of the caudal peduncle. In males these spines are large and enclosed in a bright yellowish-orange blotch. The spines are smaller in adult females and juveniles. Colour of the body is dark green to blackish-brown. This is the only member of the genus which lacks blue lines and spots. A yellow stripe extends along the middle of the body from the tail base to below the origin of the soft dorsal fin. Caudal fin of the adult male is entirely black, while that of the adult female is black with a yellow blotch on the anterior half. Juveniles are pale brown with small, irregular brown blotches and spots on the sides of the body and head. Common in kelp beds on shallow (5-10 m) coastal reefs, particularly near Port Phillip Heads. See Coleman (1980), Hutchins (1979, 1980), Kuiter (1978).

*Meuschenia trachylepis* (Gunther)  
(Yellow-finned leatherjacket) Fig. 22

D.37-39. A.35-36. P.13-14. 40 cm. Two pairs of spines on each side of the caudal peduncle, large in adult males, smaller in adult females and juveniles. A large area of wavy blue lines and spots runs along the middle of the side and there are three to four broad dark bands running longitudinally. The dorsal and anal fins are yellow. The caudal fin is brown with two white cross bars. The adult

females and juveniles show similarities to those of *M. freycineti* but differ in having fewer spines on the caudal peduncle, coarser scales, no scribbled pattern of blue lines on the head and a different pattern and colour on the caudal fin. This species is very common in estuaries and coastal reefs in New South Wales but to date has only been recorded from eastern Victoria. Coleman (1980), Hutchins (1980), Kuiter (1978).

### Acknowledgements

Barry Hutchins, Angus Martin and Dave Williams read and made many useful comments on the manuscript. Rudie Kuiter provided colour photographs and information on the distribution of several species.

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Table 1. A summary of the diagnostic features of Victorian leatherjackets

Species	Location of Pelvic Bony Structure (p.b.s., see Fig. 2)	Depth of Groove for Dorsal Spine (See Fig. 3)	Number of Caudal Peduncle Spines	Fin ray Counts and Estimated Maximum Total Length cm	Colour pattern of living specimens	Other characters to assist identification
<i>Brachaluteres jacksonianus</i> (Pigmy leatherjacket Fig. 5)	p.b.s. absent	Shallow (Fig. 3c,d)	0	D. 24-28 A. 22-26 P. 11 TL. 10	Variable. Base colours may be green, brown, yellow or grey with dark lines and spots.	Pelvic flap long and belly inflatable. Body roughly circular.
<i>Eubalichthys mosaicus</i> (Mosaic leatherjacket Fig. 6)	Anterior to posterior termination of pelvis (Fig. 2b)	Shallow (Fig. 3c,d)	0	D. 34-39 A. 32-36 P. 12-14 TL. 60	Body colour yellow with a distinctive mosaic pattern of longitudinal blue lines or bluish with yellow blotches	Depth more than half the length without tail in adult females and juveniles.
<i>Eubalichthys gunni</i> (Gunn's leather-jacket, Fig. 7)	Anterior to posterior termination of pelvis (Fig. 2b)	Shallow (Fig. 3c,d)	0	D. 33-36 A. 31-35 P. 12-15 TL. 45	Females and juveniles have a characteristic reticulated pattern of dark and light brown blotches and white lines. Adult males dull brown to greenish.	Body more elongated than that of adult females and juveniles of <i>E. mosaicus</i>
<i>Eubalichthys bucephalus</i> (Black Reef leatherjacket Fig. 8)	Anterior to posterior termination of pelvis (Fig. 2b)	Shallow (Fig. 3c,d)	0	D. 36-39 A. 36-38 P. 12-13 TL. 50	Body colour evenly dark brown with a distinctive white ring surrounding eye. Occasionally pale with several dark longitudinal stripes. Juveniles covered with dark spots (Hutchins, pers. comm.)	
<i>Biganer brownii</i> (Spiny-tailed leatherjacket, Fig. 9)	Posterior termination of pelvis (Fig. 2a)	Deep (Fig. 3a,b)	4	D. 31-33 A. 29-31 P. 11 TL. 45	Body colour green. A large area of longitudinal blue lines on the chin and around the pectoral fin, the lines blending into blue dots on the sides.	Central pair of teeth in upper jaw pointed. (Fig. 4a)
<i>Penicipella vittiger</i> (Toothbrush leatherjacket, Fig. 10)	Posterior termination of pelvis (Fig. 2a)	Deep (Fig. 3a,b)	0	D. 33-35 A. 32-33 P. 13 TL. 35	Adult male blue anteriorly with a white, oblique bar running from behind the eye to the anterior edge of a patch of bristles on the side. Base of this patch and caudal peduncle yellow. Adult females and juveniles brown to green, often with a mottled pattern of white spots.	Pelvic bony structure distinct. Outer teeth directly adjacent to middle pair of teeth in upper jaw are pointed (Fig. 4b). Adult male with toothbrush-like patch of bristles on side.
<i>Acanthaluteres spilomelanurus</i> (Bridled leather-jacket, Fig. 11)	p.b.s. very small and difficult to detect	Deep (Fig. 3a,b)	0	D. 28-30 A. 27-29 P. 10-11 TL. 15	Body colour greenish above, lighter below. Blue spots on belly, above anal fin, below dorsal fin and on caudal peduncle. An iridescent blue, back-edged line from chin, passing through the eye to the middle of the side. A dark line above this from the eye to the snout. A yellow line from the chin to the pectoral fin, continuing to the posterior end of the anal fin.	Caudal fin yellow with a vertical black band near the margin. Extremities of all outer teeth in upper jaw truncate (Fig. 4c)
<i>Scorinichthys granulatus</i> (Rough leatherjacket, Fig. 12)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	0	D. 28-31 A. 26-29 P. 12 TL. 35	Body colour green to brown with darker blotches and spots. Blue spots and lines on pelvic flap, above anal fin and below dorsal fin.	Pelvic flap large, usually capable of moving vertically through an arc of 40° or more. Skin very coarse. Caudal fin brown with a white blotch in upper and lower portions.

Table 1. A summary of the diagnostic features of Victorian leatherjackets (cont.).

Species	Location of Pelvic Bony Structure (p.b.s., see Fig. 2)	Depth of Groove for Dorsal Spine (See Fig. 3)	Number of Caudal Peduncle Spines	Fin ray Counts and Estimated Maximum Total Length cm	Colour pattern of living specimens	Other characters to assist identification
<i>Xelusetta australis</i> (‘Chinaman leather-jacket’, Fig. 13)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	0	D. 31-32 A. 31-33 P. 13 TL. 100	Adults range in colour from grey to yellowish-brown. All fins are bright yellow. Juveniles and sub-adults have four longitudinal brown stripes along the head and body.	Head and body elongate. Small dorsal spine. Soft dorsal and anal fins elevated anteriorly. Caudal peduncle longer than deep. Caudal fin truncate.
<i>Parika xalaber</i> (‘Velvet leather-jacket’, Fig. 14)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	0	D. 33-35 A. 31-36 P. 12 TL. 30	Body colour light brown to grey often with prominent dark brown blotches and sometimes with several dark stripes radiating from the eye to the snout and throat.	A narrow black bar on posterior quarter of caudal fin. Soft dorsal and anal rays elevated in male only. Barbs in posterolateral series on first dorsal spine directed posteriorly.
<i>Thamnatonotus degeni</i> (Blue-spotted leatherjacket, Fig. 15)	Posterior termination of pelvis (Fig. 2a) p.b.s. prominent	Shallow (Fig. 3c,d)	0	D. 34 A. 32-33 P. 14 TL. 20	Body colour light brown to grey. Head and body of male with iridescent blue spots. All fins blue in both sexes.	No dark bar through caudal fin. Soft dorsal and anal rays elevated anteriorly in both sexes. Barbs in posterolateral series on first dorsal spine directed laterally or absent.
<i>Meuschenia galli</i> (Blue-lined leather-jacket, Fig. 16)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	0	D. 32-35 A. 30-33 P. 11-12 TL. 40	Body colour dark green to brown. Distinctive colour pattern of numerous blue lines and spots, the lines running longitudinally on the body and obliquely on the head.	Caudal fin yellowish-orange with bright blue bar in the upper and lower sections. Posterior margin of the caudal fin is blue in adult males.
<i>Meuschenia venusta</i> (Stars and stripes leatherjacket, Fig. 17)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	0	D. 34 A. 31-32 P. 12 TL. 15	Body colour white with 4-5 brown, longitudinal bands each band consisting of closely packed golden-yellow spots, each spot about the size of the pupil of the eye. Head with numerous horizontal, golden-yellow stripes. Caudal fin yellow to green with a white vertical bar in posterior half of fin.	
<i>Meuschenia australis</i> (Southern leather-jacket, Fig. 18)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	0	D. 34-38 A. 30-37 P. 13-15 TL. 35	Body colour brown with a yellowish tinge on head. Females and occasionally males have 3 longitudinal, brown stripes dorsally. Head and breast of females generally covered with brown spots. All fins green. Mouth ringed with a blue to brown line.	Distinctive black bar along posterior margin of caudal fin (less distinct in females).
<i>Meuschenia freycineti</i> (Six-spined leather-jacket, Fig. 19)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	5-8 generally 6	D. 34-39 A. 32-37 P. 13-14 TL. 60	Adults with numerous iridescent blue lines and spots forming characteristic scribbled markings on the head (less distinct in juveniles). Body colour of males blue, often with a yellow blotch enclosing several smaller brown blotches on the side. Females and juveniles are light brown to grey with 3-4 dark brown longitudinal stripes along the sides. Dorsal and anal fins of both sexes yellow.	Caudal fin of male blue with a dark blue bar on upper and lower margin and a blue bar curving through posterior third of fin. Caudal fin of female dark green with a blue blotch in the upper and lower sections and a blue posterior margin.

Table 1. A summary of the diagnostic features of Victorian leatherjackets (cont.).

Species	Location of Pelvic Bony Structure (p.b.s., see Fig.2)	Depth of Groove for Dorsal Spine (See Fig.3)	Number of Caudal Peduncle Spines	Fin ray Counts and Estimated Maximum Total Length cm	Colour pattern of living specimens	Other characters to assist identification
<i>Meuschenia hippocrepis</i> (Horseshoe leatherjacket, Fig. 20)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	4	D. 34-37 A. 32-35 P. 13 TL. 60	Body colour olive-green to blue above, lighter below. A large yellow patch containing a distinctive, black horse-shoe-shaped mark on the side of the body behind the pectoral fin.	Caudal fin blue with a broad, dark blue to black bar curving through its posterior half.
<i>Meuschenia flavolineata</i> (Yellow-striped leatherjacket Fig. 21)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c, d)	4	D. 33-37 A. 31-35 P. 11-12 TL. 30	Body colour dark green to blackish brown with a yellow- orange patch on the caudal peduncle, continued forward along the middle of the side. Caudal fin black, the anterior portion with a yellow patch in females.	This is the only member of the genus which lacks blue lines and spots.
<i>Meuschenia trachylepis</i> (Yellow-finned leatherjacket, Fig. 22)	Posterior termination of pelvis (Fig. 2a)	Shallow (Fig. 3c,d)	4	D. 37-39 A. 35-36 P. 13-14 TL. 40	A large area of wavy blue lines and spots runs along the middle of the side and there are 3-4 broad dark bands running longitudinally. Dorsal and anal fins yellow.	The caudal fin is brown with two white cross bars.





# An annotated checklist of the Cephalopoda from Australian waters

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Abstract. Lu, C.C. and Phillips, J.U. (1985) An annotated checklist of the Cephalopoda from Australian waters. *Occ. Pap. Mus. Vict.* 2: 21-36.

An annotated listing of all nominal species of cephalopod known or reported to occur in Australian waters is given. This list contains 223 species from 35 families including 43 species previously unrecorded from Australia. For each nominal species the type information and the distributional records in Australian waters are given. Species which are represented in the collection of the Museum of Victoria are indicated.

## Introduction

The following checklist is an annotated listing of all nominal species of cephalopods known or reported to occur in Australian waters, i.e., within the 200 mile fishing zone around continental Australia and Tasmania. Species and records from New Zealand waters are not included.

The checklist is a compilation of literature records from the past 152 years, and information gained from recent collecting work carried out by the Museum of Victoria. Additional information was gathered from the collections of other Australian museums.

As a result of recent intensive collecting the number of cephalopods known to occur in Australian waters has increased greatly. The checklist contains 223 species from 35 families, including 43 species previously unrecorded from Australia. Although the inventory is by no means complete, and many families (e.g. Sepiidae, Octopodidae) remain to be critically reviewed, increased interest in Australian cephalopod resources makes it desirable to publish this checklist now. The list will be brought up to date from time to time.

It is our intention that this checklist serve not only as a preliminary inventory of cephalopod species in Australian waters, but also identifies the areas which urgently require research effort. It also serves as a checklist of the rapidly expanding collections of cephalopod specimens in the Museum of Victoria (formerly National Museum of Victoria).

## Historical background

The first descriptions of cephalopods from Australian waters are those of Lesueur (1821). Cephalopods from the Shark Bay area of Western Australia, observed by Peron and Lesueur during the voyage of the French ships 'Le Geographe' and 'Le Naturaliste' (1800-1804), were described under the names *Sepia minima*, *Sepia peronii*, *Sepia boscii* and *Sepia varietas*. In the absence of detailed descriptions or illustrations the species to which these names refer remain uncertain.

In 1825, in their report of the voyage of 'L'Uranie' and 'La Physicienne' (1817-1820), Quoy and Gaimard described a squid, *Loligo uncinata*, from the coast near Shark Bay, then known as Endracht's Land.

Quoy and Gaimard (1832) also reported the zoological results of Dumont d'Urville's voyage on board 'L'As-trolabe' (1826-1829). They described four species from Australia: *Sepia bilineata* and *Septeuthis australis* from Westernport, *Sepiolo lineolata* from Jervis Bay and *Octopus superciliosus* from Bass Strait. In addition they described eight species of cephalopods from New Guinea waters.

In 1849 Gray published a catalogue of the cephalopods in the collection of the British Museum. Gray added 11 species to those already described from Australia. Three species were added to the fauna of New Guinea.

The 'Challenger' Expedition (1873-1876) included only a few stations in Australian waters. Hoyle (1885), reporting on the cephalopod collections of the Expedi-



Fig. 1. Australian Biological Resources Study (ABRS) standard geographical regions of Australian waters.

tion, described ten new species from Australia, and three other species from the waters of Papua New Guinea.

Brazier (1892) published the first part (*Cephalopoda*) of his series *Catalogue of Marine Shells of Australia and Tasmania*. The catalogue was to record 'all the species of the recent Australian Cephalopoda, known to the Author or which have been described, from the coasts of Australia and Tasmania.' Brazier listed 20 species of octopods, 19 species of cuttlefish, eight species of myopsid squid, five species of oegospid squid and four species of nautilus. Thus, we have the first comprehensive list of Australian cephalopods.

The cephalopod collections made in south-eastern Australia by F.I.S. 'Endeavour' (1909-1914) were reported on by Berry in 1918. Of the 13 species reported, eight were previously undescribed. In 1921 Berry described two additional new species from Australia.

After Berry's report on the 'Endeavour' expeditions no major report on Australian cephalopods was published until Iredale and Cotton embarked on their studies on Australian cuttlefish. In a series of papers (Iredale, 1926, 1940, 1954; Cotton, 1929, 1931, 1932) 35 new species or subspecies were described, all based on beach-collected cuttlebones, and often on single specimens. The soft parts were never described.

In 1940 Cotton and Godfrey published a monograph on the cephalopods from South Australia. Thirty-six species were listed. Unfortunately this work confuses teuthological studies in Australia. The authors did not give specimen references, and most of the specimens examined by the authors are no longer extant in the South Australian Museum. The fact that the authors often uncritically copied the descriptions of Berry and others further confuses the situation.

In 1945 Allan published the results of her studies of the planktonic cephalopod larvae from eastern Australian coastal waters. Twenty-one species were reported, including two new species and several new records for Australia.

After the publication of Allan's paper no major work on Australian cephalopods was published until 1979 when Adam published his report on the Sepiidae in the collections of the Western Australian Museum. Adam reported 16 species of *Sepia* from Western Australia, including three new species, and two other species from eastern Australia. While making a significant contribution to the taxonomy of Australian cuttlefish, the exclusion of eastern Australian material from consideration limits its usefulness.

In 1983, as part of the Proceedings of the *Workshop on*

the *Biology and Resource Potential of Cephalopods* held in Melbourne, 9-13 March 1981, Roper published a list of nominal species of Sepiidae, Loliginidae, Ommastrephidae and Octopodidae described or reported from Australian waters. Some species of *Octopus* known only from New Zealand waters were also included.

As part of the same Proceedings Rudman (1983), Slack-Smith (1983) and Zeidler (1983) presented accounts of the cephalopod collections of the Australian Museum, Sydney, Western Australian Museum, Perth, and South Australian Museum, Adelaide, respectively.

In 1979 the senior author, with the assistance of CSIRO, Division of Fisheries Research; Antarctic Division, Department of Science and Technology; Queensland Fisheries Service; Fisheries and Wildlife Division, Victoria; Marine Science Laboratories, Queenscliff, Victoria; Tasmanian Fisheries Development Authority and South Australian Fisheries, started an active collecting program. Additional information was gathered from the collections of the Australian Museum, the Queensland Museum, the South Australian Museum, the Tasmanian Museum and the Western Australian Museum. Extensive collections have been made in Bass Strait, Tasmania, Tasman Sea, Queensland coastal waters, Gulf of Carpentaria, Torres Strait and North-West Shelf. This work, together with the lodgement of cephalopod specimens from CSIRO, Antarctic Division and the Australian Institute of Marine Sciences, Townsville, has resulted in the large and comprehensive Museum of Victoria collection that is the basis of this checklist.

The Australian Sepiidae and Loliginidae are currently being revised by the senior author. Genera treated to date are *Sepioteuthis* (Lu and Tait, 1983), *Loliolus* (Lu et al., in press) and *Loligo* (Lu and Tait, in prep.)

### Format

The species are arranged systematically following G. Voss (1977) in Nixon and Messenger (1977), with the exception of the Cranchiidae where the generic order follows N. Voss (1980). Within each genus, species are listed alphabetically. Species are assigned to genera according to current literature.

Comments on particular taxonomic problems may follow the order or family name.

For each entry the following information is presented: genus of original designation, species, author, year of publication, page number, plate and figure numbers, type locality, and (in brackets) the location of the type specimen, when known. Complete references are given at the end of the paper.

If the name has been placed into synonymy in a recent revision, this is indicated after the literature citation by a referral to the senior synonym (e.g., see *Sepia apama*).

The literature citation is followed by the known Australian distribution for the species. It is not necessarily the complete distribution. It is based on data in the Museum of Victoria collections, supplemented by literature records and the collections of other institutions. In the latter case the material has been examined by the senior author. Specific collections are cited only when the record is of particular interest.

Where a literature record is unverified, the distribution is followed by a reference, e.g., Northern Australia (Brazier, 1892). As far as possible Australian Biological

Resources Study (ABRS) standard geographical regions are used (Fig. 1) but the nature of some locality data makes this difficult in all cases.

Remarks about the validity of a species name or of a species record may follow the distribution.

An asterisk (\*) preceding the species entry indicates that the Museum of Victoria has specimens in its collection; a plus (+) indicates a new record for Australia.

### Abbreviations

AM	Australian Museum, Sydney
AUZ	Department of Zoology, Auckland University, New Zealand
BMNH	British Museum (Natural History), London
CAS	California Academy of Sciences, San Francisco
IMC	Indian Museum, Calcutta
JCU	James Cook University, Townsville
LSL	Linnean Society, London
MBM	Mission de Biologie Maritime 1957 Navire Oceanographique Baldaque da Silva
MNHNP	National Museum of Natural History, Paris
MSTU	Museum of the Science College, University of Tokyo
NMV	Museum of Victoria, Melbourne
NMNZ	National Museum of New Zealand, Wellington
OMM	Oceanographic Museum, Monaco
SAM	South Australian Museum, Adelaide
TM	Tasmanian Museum, Hobart
USC	University of Southern California, Los Angeles
USNM	United States National Museum, Washington D.C.
ZMA	Zoological Museum, University of Amsterdam
ZMB	Zoological Museum, Berlin
ZMBE	Zoological Museum, Bergen
ZMC	Zoological Museum, Copenhagen
ZMS	Zoological Museum, Louis Pasteur University, Strasbourg
Vic.	Victoria
SA	South Australia
WA	Western Australia
NT	Northern Territory
Qld	Queensland
NSW	New South Wales
Tas.	Tasmania
NW Shelf	North-west Shelf

## CLASS CEPHALOPODA

### SUBCLASS NAUTILOIDEA

#### Nautilidae de Blainville, 1825

*Nautilus alumnus* Iredale, 1944

*Nautilus alumnus* Iredale, 1944:295. Queensland. (Type not traced).

Type localities only.

Regarded as a *nomen dubium* by Saunders (1981).

\**Nautilus pompilius* Linnaeus, 1758

*Nautilus pompilius* Linnaeus, 1758: 709. India. (Type not traced).

Qld, NSW, NW Shelf.

Living specimens taken only from Iluka, NSW (Saunders, 1981) and North-west Shelf.



*Nautilus repertus* Iredale, 1944

*Nautilus repertus* Iredale, 1944: 295, fig. Pelsart Island, Abrolhos, WA. (AM).

WA (Iredale, 1944); Foul Bay, southern Yorke Peninsula, SA (Riddle, 1920.).

Regarded as a questionable species by Saunders (1981).

*Nautilus stenomphalus* Sowerby, 1849

*Nautilus stenomphalus* Sowerby, 1849: 465, pl. 47 fig. 3. No locality cited. (BMNH).

N. Qld (Iredale, 1944).

Regarded as a questionable species by Saunders (1981).

## SUBCLASS COLEOIDEA

### ORDER SEPIOIDEA

#### Spirulidae Owen, 1836

*Spirula peronii* Lamarek, 1822

*Spirula peronii* Lamarek, 1822: 601. Australian seas and Molluccas. (Type lost).

See *Spirula spirula*.

\**Spirula spirula* (Linnaeus, 1758)

*Nautilus spirula* Linnaeus, 1758: 710. America. (LSL).

Eastern Australia from Coral Sea to Tas.

Hoyle (1909) considered *Spirula peronii* to be a synonym of *S. spirula*. Shells are recorded from the beaches of all states (Brazier, 1892; Verco and Cotton, 1928).

#### Sepiidae Keferstein, 1866

*Sepia plangon adhaesa* (Iredale, 1926)

*Solitosepia plangon adhaesa* Iredale, 1926b: 238. North-west Is., Qld. (AM).

See *Sepia plangon*.

*Sepia ellipticum adjacens* (Iredale, 1926)

*Acanthosepion ellipticum adjacens* Iredale, 1926b: 239, pl. 35 figs. 5, 6. North-west Is., Qld. (AM).

See *Sepia elliptica*.

\**Sepia apama* Gray, 1849

*Sepia apama* Gray, 1849: 103. Port Adelaide, SA. (BMNH).

Southern Australia from southern Qld to Point Cloates, WA.

Adam (1979) listed *Amplisepia verreauxi* (non Rochebrune, 1844) Iredale, 1926, *Sepia palmata* Owen, 1881 and *Amplisepia parysatis* Iredale, 1954 as synonyms.

*Sepia bartlettii* (Iredale, 1954)

*Blandosepia bartlettii* Iredale, 1954: 67, pl. 5 figs. 15, 16. Misima and the Conflict Group, Louisiade Archipelago, (southeast of Papua New Guinea). (AM).

Type locality only.

Animal unknown.

*Sepia baxteri* (Iredale, 1940)

*Blandosepia baxteri* Iredale, 1940: 442. Lord Howe Island. (AM).

Type locality only.

Animal unknown.

\**Sepia braggi* Verco, 1907

*Sepia braggi* Verco, 1907: 213, pl. 27 fig. 6. Glenelg, SA. (SAM).

Southern Australia from southern Qld to Cockburn Sound, WA.

Adam and Rees (1966) considered that *Arctosepia limata* Iredale, 1926, *A. versuta* Iredale, 1926, *A. rhoda* Iredale, 1954, *A. treba* Iredale, 1954 and *A. braggi xera* Iredale, 1954 are possible synonyms.

*Sepia capensis* d'Orbigny, 1845

*Sepia capensis* d'Orbigny, 1845: pl. 7 figs. 1-3. Cape of Good Hope. (Type not traced).

Several authors have reported this species from Australia but according to Adam and Rees (1966) these records do not represent the South African species which is a synonym of *Sepia australis* Quoy & Gaimard, 1832.

*Sepia chirotrema* Berry, 1918

*Sepia chirotrema* Berry, 1918: 268, pl. 74 figs. 3-9, pls. 75-77. Investigator Strait area, south of Kangaroo Island, SA (Type missing from AM).

Southern Qld, SA, WA (Adam, 1979).

Adam (1979) considered *Sepia hendryae* (Cotton, 1929) to be a synonym.

*Sepia cottesloensis* (Cotton, 1929)

*Decorisepia cottesloensis* Cotton, 1929: 90, pl. 16 figs. 1, 2. Cotteslow, WA. (SAM).

See *Sepia rex*.

*Sepia cottoni* Adam, 1979

*Sepia cottoni* Adam, 1979: 193, pl. 11 figs. 1-6. W. of Lancelin, WA. (31°54'S., 114°55'E.), 114-122 m. (WAM).

WA: a single shell recorded from Stradbroke Island, Qld (Adam, 1979).

\**Sepia cultrata* Hoyle, 1885

*Sepia cultrata* Hoyle, 1885c: 198. Off south-east coast of Australia ('Challenger' Stn 163), 2200 fm (BMNH).

NSW, Vic., WA. Adam (1979) also recorded the species from southern Qld.

Adam (1979) listed *Sepia macilenta* (Iredale, 1929) and *Sepia gemellus* (Iredale, 1929) as synonyms.

*Sepia dannevigii* Berry, 1918

*Sepia dannevigii* Berry, 1918: 264, pl. 63, pl. 64 figs. 1, 2. Investigator Strait area, south of Kangaroo Is., SA. (AM).

See *Sepia elliptica*.

*Sepia eclogaria* (Iredale, 1926)

*Ponderisepia eclogaria* Iredale, 1926b: 239, pl. 35 figs. 7, 8. Masthead Is., Qld. (AM).

See *Sepia latimanus*.

\**Sepia elliptica* Hoyle, 1885

*Sepia elliptica* Hoyle, 1885: 189. South of Papua ('Challenger' Stn 188), 28 fm; Stn 190, 49 fm. (BMNH).

Northern Australia from Exmouth Gulf, WA, to Capricorn Group, Qld. Also recorded from southern Australia as *A. whitleyanum* and *S. dannevigii*.

Adam (1979) listed *Acanthosepion ellipticum adjacens* Iredale, 1926, and *A. whitleyanum* Iredale, 1926, as synonyms and considered *Sepia dannevigii* Berry, 1918, as a possible synonym.

*Sepia galei* Meyer, 1909

*Sepia galei* Meyer, 1909: 332, figs. 4-6. Shark Bay, near Brown Station, Dirk Hartog, WA. (Type not traced).

See *Sepia papuensis*.

*Sepia gemellus* (Iredale, 1926)

*Glyptosepia gemellus* Iredale, 1926a: 192, pl. 22 figs. 1, 2. Manly Beach, NSW. (AM).

See *Sepia cultrata*.

*Sepia genista* (Iredale, 1954)

*Solitosepia genista* Iredale, 1954: 66, pl. 5 figs. 17, 18. Broome, WA. (AM).

See *Sepia papuensis*.

*Sepia glauerti* (Cotton, 1929)

*Solitosepia glauerti* Cotton, 1929: 87, pl. 14 figs. 3, 4. Rottnest Island, WA (SAM).

Rottnest Is. and Cottesloe, WA. (Cotton, 1929).

Animal unknown.

\**Sepia hedleyi* Berry, 1918

*Sepia hedleyi* Berry, 1918: 258, figs. 48-50, pls. 71, 72. Investigator Strait area, south of Kangaroo Island, SA. (AM).

Southern Australia from Vic. to WA.

*Sepia hendryae* (Cotton, 1929)

*Solitosepia hendryae* Cotton, 1929: 87, pl. 15 figs. 1, 2. Rottnest Is., WA. (SAM).

See *Sepia chirostoma*.

*Sepia hulliana* (Iredale, 1926)

*Crumenasepia hulliana* Iredale, 1926b: 239, pl. 35 figs. 1, 2. Howick Island, N. Qld. (AM).

See *Sepia pharaonis*.

*Sepia indica* d'Orbigny, 1848

*Sepia indica* d'Orbigny, 1848: 288, pl. 21. Bombay. (MNHNP).

Northern Australia (Brazier, 1892.)

Adam and Rees (1966) considered this name to be a synonym of *Sepia aculeata* Ferussac & d'Orbigny, 1835.

\**Sepia irvingi* Meyer, 1909

*Sepia irvingi* Meyer, 1909: 333, figs. 7-10. Cockburn Sound, WA. (Holotype not traced, paratype in WAM)

*Sepia jaenschi* (Cotton, 1931)

*Decorisepia jaenschi* Cotton, 1931: 41, figs. 5, 6. Robe, SA. (SAM).

See *Sepia rex*.

*Sepia lana* (Iredale, 1954)

*Solitosepia lana* Iredale, 1954: 66. Low Isles, Qld. (AM).

See *Sepia papuensis*.

*Sepia latimanus* Quoy & Gaimard, 1832

*Sepia latimanus* Quoy & Gaimard, 1832: 68, pl. 2 fig. 2. Port Dorey, New Guinea. (MNHNP).

Northern Australia from Shark Bay, WA to Qld (Meyer, 1909; Brazier, 1892; Iredale, 1954); also recorded from NSW, Vic. and Tas. (Chapman, 1912).

D'Orbigny (1848) considered *Sepia rappiana* Ferussac, 1835, to be a synonym. Adam and Rees (1966) also considered *Ponderisepia eclogaria* Iredale, 1926, to be a synonym.

*Sepia pfefferi laxior* (Iredale, 1926)

*Metasepia pfefferi laxior* Iredale, 1926b: 240, pl. 35 figs. 9, 10. Masthead Is., Qld. (AM).

See *Sepia pfefferi*.

*Sepia liliana* (Iredale, 1926)

*Solitosepia liliana* Iredale, 1926a: 188, pl. 21 figs. 1-3. Manly Beach, NSW. (AM).

See *Sepia mestus*.

*Sepia limata* (Iredale, 1926)

*Arctosepia limata* Iredale, 1926a: 193, pl. 23 figs. 7, 8. Manly Beach, NSW. (AM).

See *Sepia braggi*.

*Sepia macandrewi* (Iredale, 1926)

*Mesembriosepia macandrewi* Iredale, 1926a: 191, pl. 21 figs. 8, 9. Shellharbour, NSW. (AM).

See *Sepia novaehollandiae*.

*Sepia macilenta* (Iredale, 1926)

*Glyptosepia macilenta* Iredale, 1926a: 192, pl. 22 figs. 3, 4. Manly Beach, NSW. (AM).

See *Sepia cultrata*.

*Sepia mestus* Gray, 1849

*Sepia mestus* Gray, 1849: 108. Australia. (BMNH). Southern Qld and NSW (Adam, 1979).

Adam and Rees (1966) listed *Solitosepia liliana* Iredale, 1926 and *Ascarosepion verreauxi* Rochebrune, 1884, as synonyms. *Sepia mestus* of Iredale, 1926 is not considered to be the same species as *S. mestus* Gray, 1849 (Adam, 1979).

*Sepia mira* (Cotton, 1932)

*Tenuisepia mira* Cotton, 1932: 546, figs. 7-9. Northwest Islet, Capricorn Group, Qld. (SAM).

Qld, NSW (Adam and Rees, 1966).

\**Sepia novaehollandiae* Hoyle, 1909

*Sepia novaehollandiae* Hoyle, 1909: 266. Kangaroo Is., SA. (Type not traced).

Southern Australia from NSW to WA.

Adam (1979) considered *Sepia macandrewi* (Iredale, 1926) to be a probable synonym.

*Sepia occidua* (Cotton 1929)

*Solitosepia occidua* Cotton, 1929: 88, pl. 14 figs. 1, 2. Rottnest Is., WA. (SAM).

See *Sepia papuensis*.

- Sepia opipara* (Iredale, 1926)  
*Glyptosepia opipara* Iredale, 1926: 191, pl. 22 figs. 7, 8.  
 Masthead Island, Capricorn Group, Qld. (AM).  
 Qld, NSW (Iredale, 1954)  
 Animal unknown.
- Sepia ostones* (Iredale, 1954)  
*Mesembrisepia ostones* Iredale, 1954: 69, pl. 4 figs. 5, 6.  
 Marrawah and Strahan, west Tas. as well as Stanley and  
 Burnie, north-west Tas. (AM).  
 Southern Australia (Iredale, 1954).  
 Animal unknown.
- Sepia pageora* (Iredale, 1954)  
*Acanthosepion pageorum* Iredale, 1954: 76, pl. 4 figs.  
 7-9. Keppel Bay, Qld. (AM).  
 See *Sepia smithi*.
- Sepia palmata* Owen, 1881  
*Sepia palmata* Owen, 1881: 134, pls. 24, 25. Norfolk Is.,  
 Australia. (Type lost).  
 See *Sepia apama*.
- \**Sepia papuensis* Hoyle, 1885  
*Sepia papuensis* Hoyle, 1885c: 197. South of Papua  
 ('Challenger' Stn 188) in 28 fm. (BMNH).  
 NW Shelf. Adam (1979) also recorded this species from  
 southern WA.  
 Adam (1979) listed *Sepia lana* (Iredale, 1954), *S. galei*  
 Meyer, 1909, *S. genista* (Iredale, 1954), *S. submestus*  
 (Iredale, 1926) and *S. occidua* (Cotton, 1929) as  
 synonyms.
- Sepia parysatis* (Iredale, 1954)  
*Amplisepia parysatis* Iredale, 1954: 71, pl. 4 figs. 1, 2.  
 Shark Bay, WA. (AM).  
 See *Sepia apama*.
- Sepia rozella peregrina* (Iredale, 1926)  
*Solitosepia rozella peregrina* Iredale, 1926b: 238.  
 North-west Is., Qld. (AM).  
 See *Sepia rozella*.
- \**Sepia (Metasepia) pfefferi* Hoyle, 1885  
*Sepia (Metasepia) pfefferi* Hoyle, 1885c: 199. South of  
 Papua ('Challenger' Stn 188) in 28 fm (BMNH).  
 Northern Australia from NW Shelf to Southern Qld.  
*Metasepia pfefferi laxior* Iredale, 1926 is a synonym  
 (Adam, 1979).
- \**Sepia pharaonis* Ehrenberg, 1831  
*Sepia pharaonis* Ehrenberg, 1831: ? Massaouah. (Type  
 not traced, possibly ZMB).  
 Northern Australia from WA to Qld.  
 Adam (1979) listed *Sepia ursulae* (Cotton, 1929), *S.*  
*hulliana* Iredale, 1926) and *S. venustoides* Hoyle, 1909 (*S.*  
*venusta* Pfeffer, 1884) as synonyms.
- Sepia plangon* Gray, 1849  
*Sepia plangon* Gray, 1849: 104. Port Jackson, NSW.  
 (BMNH).  
 Southern Qld, NSW.  
*Sepia plangon adhaesa* (Iredale, 1926) is a synonym.
- Sepia rappiana* Ferussac, 1835  
*Sepia rappiana* Ferussac, 1835: pl. 10. Kangaroo Is.,  
 SA. (Type not traced).  
 Type locality only.  
 See *Sepia latimanus*.
- Sepia reesi* Adam, 1979  
*Sepia reesi* Adam, 1979: 200, pl. 4 fig. 3. Salmon Bay,  
 Rottnest Island, WA. (WAM).  
 Type locality only.  
 Animal unknown.
- Sepia rex* (Iredale, 1926)  
*Decorisepia rex* Iredale, 1926a: 193, pl. 22 figs. 9, 10.  
 Manly Beach, NSW. (AM).  
 Southern Australia from southern Qld to SA.  
 Adam (1979) listed *Sepia jaenschii* (Cotton, 1931) and  
*Sepia cottesloensis* (Cotton, 1929) as synonyms. He also  
 described the animal of this species for the first time. We  
 do not agree that the animals described are conspecific  
 with *Sepia rex* Iredale, 1926.
- Sepia rhoda* (Iredale, 1954)  
*Arctosepia rhoda* Iredale, 1954: 75, pl. 4 figs. 10-12.  
 Point Cloates, mid-WA. (AM).  
 See *Sepia braggi*.
- Sepia rostrata* d'Orbigny, 1835  
*Sepia rostrata* d'Orbigny, 1835: pl. 8. No locality given.  
 (Type not traced).  
 WA and Torres Straits (Brazier, 1892).  
 According to Adam and Rees (1966) this is not the  
 same species as *Sepia rostrata*, d'Orbigny, 1848: 284, pl.  
 26. They consider *Sepia rostrata*, d'Orbigny, 1848, to be a  
 synonym of *Sepia brevimana* Steenstrup, 1875. The status  
 of *S. rostrata* d'Orbigny, 1835 is uncertain. It is not certain  
 to which species the Australian records are referable.
- Sepia rozella* (Iredale, 1926)  
*Solitosepia rozella* Iredale, 1926a: 190, pl. 21 figs. 6, 7.  
 Manly Beach, NSW. (AM).  
 Qld, NSW.  
 Adam (1979) listed *Sepia rozella peregrina* (Iredale,  
 1926) as a synonym. This species was formerly known  
 only from the cuttlebone. The animal of this species,  
 although it exists in collections, has yet to be described.
- Sepia smithi* Hoyle, 1885  
*Sepia smithi* Hoyle, 1885c: 190. South of Papua ('Chal-  
 lenger' Stn 188) in 28 fm. (BMNH).  
 Northern Australia from Shark Bay, WA, to Moreton  
 Bay, Qld.  
 Adam (1979) listed *Sepia pageora* (Iredale, 1954) as a  
 synonym.
- Sepia submestus* (Iredale, 1926)  
*Solitosepia submestus* Iredale, 1926b: 238, pl. 35 figs. 3,  
 4. Masthead Is., Qld. (AM).  
 See *Sepia papuensis*.
- Sepia treba* (Iredale, 1954)  
*Arctosepia treba* Iredale, 1954: 75. Stanley, north-  
 western Tas. (AM).  
 See *Sepia braggi*.



*Sepia ursulae* (Cotton, 1929)

*Crumenasepia ursulae* Cotton, 1929: 90, pl. 15 figs. 3, 4. Cottesloe, WA. (SAM).

See *Sepia pharaonis*

*Sepia vercoi* Adam, 1979

*Sepia vercoi* Adam, 1979: 190, pl. 10 figs. 5, 6. W. of Shark Bay, WA (25°31'S, 112°29'E), 130 m. (WAM).

South-western Australia from Broke Inlet on the south coast to Carnarvon (Adam, 1979).

*Sepia verreauxi* (Rochebrune, 1884)

*Ascarosepion verreauxi* Rochebrune, 1884: 98, pl. 5 fig. 2. Sydney, NSW. (MNHNP).

See *Sepia mestus* and *Sepia apama*.

*Sepia versuta* (Iredale, 1926)

*Arctosepia versuta* Iredale, 1926a: 194, pl. 23 figs. 5, 6. Manly Beach, NSW. (AM).

See *Sepia braggi*.

*Sepia whitleyanum* (Iredale, 1926)

*Acanthosepion whitleyanum* Iredale, 1926a: 195, pl. 23 figs. 9, 10. Port Macquarie, NSW. (AM).

See *Sepia elliptica*.

*Sepia braggi xera* (Iredale, 1954)

*Arctosepia braggi xera* Iredale, 1954: 74, pl. 5 figs. 19-21. Stanley, north-west Tas. (AM).

See *Sepia braggi*.

*Sepia pfefferi wanda* (Iredale, 1954)

*Metasepia pfefferi wanda* Iredale, 1954: 78, pl. 5 figs. 9-11. Denham Bay, Shark Bay, WA. (AM).

See *Sepia pfefferi*

*Sepiella melwardi* Iredale, 1954

*Sepiella melwardi* Iredale, 1954: 78, pl. 5 figs. 1-6. Condon Bay, Melville Island, NT. (AM).

Type locality only.

The species was described from cuttlebones only, though Iredale (1954:79) refers to a single animal dredged in 40 fm SE. of Lesueur Island, north-western Australia. He said 'the bone was decalcified . . . but it almost certainly will belong to this species.'

+\**Sepiella weberi* Adam, 1939

*Sepiella weberi* Adam, 1939b: 98, pl. 4 figs. 1, 2. Timor and Soemba, Indonesia. (ZMA).

North-western Australia.

## **Sepiadariidae Naef, 1912**

*Sepiadarium auritum* Robson, 1914

*Sepiadarium auritum* Robson, 1914: 678, fig. 1. Dredged off Hermite Is. (Monte Bello Islands), WA. (BMNH).

WA (WAM), northern Queensland (JCU).

\**Sepiadarium austrinum* Berry, 1921

*Sepiadarium austrinum* Berry, 1921: 354, Chart 10, St. Vincent Gulf, SA. (Type not traced).

Bass Strait, SA, Rottnest Is. WA.

\**Sepiadarium kochii* Steenstrup, 1881

*Sepiadarium kochii* Steenstrup, 1881: 214, pl. 1 figs. 1-10. Deep Water Bay, Hong Kong, (ZMC).

NW Shelf. A record from SA (Cotton and Godfrey, 1940) is dubious.

*Sepioloidea lineolata* (Quoy & Gaimard, 1832)

*Sepiola lineolata* Quoy & Gaimard, 1832: 82, pl. 5 figs. 8-13. Jervis Bay, NSW. (MNHNP).

Known from all coasts of Australia with the exception of NT and Gulf of Carpentaria.

## **Sepiolidae Leach, 1817**

*Rossia australis* Berry, 1918

*Rossia* (*Austrorossia*) *australis* Berry, 1918: 253, pl. 69 figs. 3, 4; pl. 70, 250-300 fm, 130°50'E. Great Australian Bight, S. of Eucla, WA. (AM).

Southern Australia from southern Qld to Great Australian Bight.

\**Heteroteuthis serventyi* Allan, 1945

*Heteroteuthis serventyi* Allan, 1945: 340, pl. 27 figs. 22, 23. 35°07'S., 150°51'E. (near Jervis Bay, south-eastern NSW). (AM).

NSW, eastern Vic, Tas.

\**Heteroteuthis* sp.

NW Shelf

+\**Iridoteuthis* sp.

NSW, Vic, Great Australian Bight, Tas.

The genus presently consists of two recognised species *I. iris* (Berry, 1909) from Hawaii and *I. maoria* Dell, 1959 from New Zealand. Until these species are studied in greater detail, the Australian specimens cannot be definitely assigned.

+\**Sepiolina nipponensis* (Berry, 1911)

*Stoloteuthis nipponensis* Berry, 1911: 39, fig. Suruga Bay, Japan. (CAS).

Great Australian Bight.

+\**Sepiola* sp.

Great Australian Bight and NW Shelf.

Several lots exist in NMV collections: their identity awaits further study.

\**Euprymna stenodactyla* (Grant, 1833)

*Sepiola stenodactyla* Grant, 1833: 42. Mauritius. (Type not traced).

Timor Sea, southern Qld, NSW.

\**Euprymna tasmanica* (Pfeffer, 1884)

*Sepiola tasmanica* Pfeffer, 1884: 66, fig. 7. Bass Strait. (Type not traced).

Southern Australia from NSW to WA including Tas. This is an inshore and embayment species.

## **Idiosepiidae Appellöf, 1898**

\**Idiosepius notoides* Berry, 1921

*Idiosepius notoides* Berry, 1921: 361, Chart 11, fig. 67. Goolwa, SA. (Type not traced).

Eastern Australia from northern Qld to SA.

*Idiosepius paradoxus* (Ortmann, 1888)

*Microteuthis paradoxa* Ortmann, 1888: 649, pl. 22 fig. 4. Katsiyama, Bay of Tokyo, Japan. (Type not traced).

Recorded from 'Australian Seas' (Cotton and Godfrey, 1940).

This record is doubtful.

*Idiosepius pygmaeus* Steenstrup, 1881

*Idiosepius pygmaeus* Steenstrup, 1881: 219, pl. 1 figs. 11-22. 4°20'N., 107°20'E. (ZMC).

Recorded from 'Australian Seas' (Cotton and Godfrey, 1940).

This record is doubtful.

## ORDER TEUTHOIDEA

### SUBORDER MYOPSIDA

#### Loliginidae Steenstrup, 1861

*Loligo australis* Gray, 1849

*Loligo australis* Gray, 1849: 71. Newcastle, Australia. (BMNH).

NSW. (Brazier, 1892)

The type is in very poor condition and the species must be considered a *nomen dubium*.

\**Loligo chinensis* Gray, 1849

*Loligo chinensis* Gray, 1849: 74. Canton market, China. (BMNH).

Northern Australia from Shark Bay, WA, to NSW.

Natsukari and Okutani (1975) listed *Loligo etheridgei* Berry, 1918 as a synonym. They also included *Loligo indica* non Pfeffer (Hoyle) in the synonymy.

\**Loligo edulis* Hoyle, 1885

*Loligo edulis* Hoyle, 1885c: 186. Yokohama market, Japan. (BMNH).

Northern Australia from WA to Gulf of Carpentaria. Also recorded from NSW (Brazier, 1892). The latter record is doubtful and probably represents *Loligo chinensis*.

*Loligo etheridgei* Berry, 1918

*Loligo etheridgei* Berry, 1918: 243, pls. 67, 68; pl. 69 figs. 1, 2. 'Australian Seas.' (AM).

See *Loligo chinensis*.

*Loligo indica* (non Pfeffer, 1884) Hoyle, 1886.

Arafura Sea, south of New Guinea (Hoyle, 1886; Brazier, 1892).

Natsukari and Okutani (1975) listed *Loligo indica* of Hoyle, 1886 as a synonym of *Loligo chinensis* Gray, 1849.

\**Loligo* spp.

In addition to *L. chinensis* and *L. edulis* two other species of *Loligo* are found in northern Australian waters and will be described separately (Lu and Tait, in prep.).

*Doryteuthis sibogae* Adam, 1954

*Doryteuthis sibogae* Adam, 1954: 146, figs. 16-18; pl. 1 fig. 4. Côte SE de Soemba. (ZMA).

This record (Roper, 1983) is not confirmed by any material examined to date.

*Doryteuthis singhalensis* (Ortmann, 1891)

*Loligo singhalensis* Ortmann, 1891: 676, pl. 46 fig. 3. Ceylon. (ZMS).

This record (Roper, 1983) is not confirmed by any material examined to date.

\**Sepioteuthis australis* Quoy & Gaimard, 1832

*Sepioteuthis australis* Quoy & Gaimard, 1832: 77, pl. 4 fig. 1. Western Port, Australia. (MNHN).

Southern Australia from Qld to WA. Also known from north-western Australia (WAM).

*Sepioteuthis bilineata* (Quoy & Gaimard, 1832)

*Sepia bilineata* Quoy & Gaimard, 1832: 66, pl. 2 fig. 1. Westernport Bay, Vic. (Type lost).

This should be considered a *nomen dubium* (Lu and Tait, 1983).

\**Sepioteuthis lessoniana* Lesson, 1830

*Sepioteuthis lessoniana* Lesson, 1830: 244. Type locality not traced. (Type not traced).

Northern Australia from Houtman Abrolhos, WA, to southern Qld.

Adam (1939a) listed *Sepioteuthis lunulata* Quoy & Gaimard, 1832, and *S. mauritiana* Quoy & Gaimard, 1832, as synonyms. However, *S. mauritiana* of Meyer, 1909, is *S. australis* Quoy & Gaimard, 1832. As the south-eastern limit of *S. lessoniana* is southern Qld *S. lunulata* and *S. mauritiana* of Brazier, 1892 are dubious records.

*Sepioteuthis lunulata* Quoy & Gaimard, 1832

*Sepioteuthis lunulata* Quoy & Gaimard, 1832: 74, pl. 3 figs. 8-13. Vanikoro Is., Pacific Ocean. (MNHN).

NSW (Brazier, 1892).

See *Sepioteuthis lessoniana*.

*Sepioteuthis mauritiana* Quoy & Gaimard, 1832

*Sepioteuthis mauritiana* Quoy & Gaimard, 1832: 76, pl. 4 figs 2-6. Mauritius. (MNHN).

NSW (Brazier, 1892); Albany, WA (Meyer, 1909).

See *Sepioteuthis lessoniana*.

+ *Loliolus* sp.

Eastern Australia from Gulf of Carpentaria to Port Phillip Bay, Vic.; Tas.

This is a new species to be described in a forthcoming paper (Lu et al., in press)

### SUBORDER OEGOPSIDA

#### Lycoteuthidae Pfeffer, 1908

+ *Lycoteuthis diadema* (Chun, 1900)

*Enoploteuthis diadema* Chun, 1900: 532, fig. 40°31'S., 15°06'W., vertical net to 1500 m. (ZMB).

Tasman Sea.

+ *Oregoniateuthis lorigera* (Steenstrup, 1875)

*Onychoteuthis* (?) *Lorigera* Steenstrup, 1875: 473. South Sea. (ZMC).

Eastern Tas.

Two specimens of this rare species exist in the collection of NMV.

## Enoploteuthidae Pfeffer, 1900

\**Enoploteuthis galaxias* Berry, 1918

*Enoploteuthis galaxias* Berry, 1918: 211, pls. 59, 60, text-figs. 1-4. Gabo Island to Everard Grounds, Vic., 200-250 fm. (AM).

Eastern Australia, from southern Qld to Tas.

+ \**Abralia andamanica* Goodrich, 1896

*Abralia andamanica* Goodrich, 1896: 9, pl. 2 figs. 38-45. Andaman Sea, 188-320 fm. (IMC).

Coral Sea.

+ \**Abralia armata* (Quoy & Gaimard, 1832)

*Onychoteuthis armatus* Quoy & Gaimard, 1832: 84, pl. 5 figs. 14-22. Near Celebes, Molluccas. (MNHNP).

NW Shelf.

\**Abralia astrostricta* Berry, 1909

*Abralia astrostricta* Berry, 1909: 412, figs. 4-7. Off south-west coast of Oahu, Hawaiian Islands, 192 fm. (USNM).

Northern Tasman Sea; Coral Sea (AM).

+ \**Abralia spaercki* Grimpe, 1931

*Abralia spaercki* Grimpe, 1931: 150. Amboina. (ZMC).

Coral Sea.

\**Abraliopsis gilchristi* (Robson, 1924)

*Abralia gilchristi* Robson, 1924: 3. Dr Gilchrist's Stn 81, Cape Town, 280 fm; Stn 84, Cape Town, 240 fm. (BMNH).

Tasman Sea, Great Australian Bight.

*Abraliopsis hoylei* (Pfeffer, 1884)

*Enoploteuthis hoylei* Pfeffer, 1884: 77, figs. 22, 22a-b. Mascarene Islands. (Type not traced).

Southern NSW, Tas. (Allan, 1945).

+ \**Ancistrocheirus lesueuri* (d'Orbigny, 1835)

*Onychoteuthis lesueuri* d'Orbigny, 1835: pl. 11 figs. 1-5; pl. 14 figs. 4-10. Indian Ocean. (MNHNP).

Tasman Sea, NW Shelf.

+ \**Pyroteuthis addolux* Young, 1972

*Pyroteuthis addolux* Young, 1972: 22, pls. 3b, 4i-q, s. 31°39'N., 133°16'W., eastern North Pacific. (USC).

Coral Sea.

\**Pyroteuthis margaritifera* (Rüppell, 1844)

*Enoploteuthis margaritifera* Rüppell, 1844: 129, fig. 1. Straits of Messina. (BMNH).

Tasman Sea, Southern Ocean, Great Australian Bight.

\**Pterygioteuthis gemmata* Chun, 1908

*Pterygioteuthis gemmata* Chun, 1908: 87. South Atlantic Ocean. (ZMB).

Coral Sea, Tasman Sea.

\**Pterygioteuthis giardi* Fischer, 1895

*Pterygioteuthis giardi* Fischer, 1895: 205, pl. 9. Type locality not traced. (MNHNP).

Coral Sea, Tasman Sea.

## Octopoteuthidae Berry, 1912

\**Octopoteuthis* sp.

Tasman Sea, Southern Ocean.

The specific identification is not attempted as the genus is badly in need of revision.

\**Taningia danae* Joubin, 1931

*Taningia danae* Joubin, 1931: 181, figs. 11-16. 14°52'N., 28°04'W., 100 m. (ZMC).

Tasman Sea. Also known from WA (WAM) and SA (Zeidler, 1981).

## Onychoteuthidae Gray, 1849

\**Onychoteuthis banksii* (Leach, 1817)

*Loligo banksii* Leach, 1817: 141. Type locality not traced. (BMNH).

Coral Sea, Tasman Sea. Also recorded from SA (Cotton and Godfrey, 1940).

*Onychoteuthis rutilus* Gould, 1852

*Onychoteuthis rutilus* Gould, 1852: 482, fig. 595. South Pacific, near Sydney, NSW (Type not traced).

NSW, Bass Strait (Allan, 1945; Brazier, 1892).

Adam (1952) included *O. rutilus* in the synonymy of *O. banksii*.

+ *Chaunoteuthis mollis* Appellöf, 1890.

*Chaunoteuthis mollis* Appellöf, 189: 3, pls. 1-4. Mediterranean. (ZMBc).

Victoria.

NMV holds one specimen of this rare species.

+ \**Ancistoteuthis* sp.

NSW.

Specific identification is not attempted. The genus is monotypic at present: *Ancistoteuthis lichtensteinii* (d'Orbigny, 1839).

+ \**Moroteuthis ingens* (Smith, 1881)

*Onychoteuthis ingens* Smith, 1881: 25, pl. 3 fig. 1-1d. Port Riofrio, west coast of Patagonia. (BMNH).

Tasman Sea, Southern Ocean.

+ \**Moroteuthis robsoni* Adam, 1962

*Moroteuthis robsoni* Adam, 1962: 24, figs. 2-3; pl. 1 figs. 1-4. Angola, 16°35.6'S., 11°19.5'E. (MBM).

Southern Ocean.

+ \**Moroteuthis* sp.

NW Shelf.

The identity of this species is yet to be determined.

## Cycloteuthidae Naef, 1923

+ \**Discoteuthis discus* Young & Roper, 1969

*Discoteuthis discus* Young & Roper, 1969: 5, pls. Approx. 100 km SSW of Cape Three Points, Ghana, West Africa in the Gulf of Guinea at 03°50'N., 02°37'W., 750 m. (USNM).

Tasman Sea.



### **Lepidoteuthidae Naef, 1912.**

- + *Lepidoteuthis grimaldii* Joubin, 1895  
*Lepidoteuthis grimaldii* Joubin, 1895a: 1172, fig.  
Azores. (OMM).  
Tasman Sea (AM); Southern Ocean.
- + *Tetronychoteuthis dussumieri* (d'Orbigny, 1839)  
*Onychoteuthis dussumieri* d'Orbigny, 1839: 355, pl. 13.  
Indian Ocean, north of Mauritius. (MNHN).  
Tasman Sea.

*Tetronychoteuthis massyae* Pfeffer, 1912.  
*Tetronychoteuthis massyae* Pfeffer, 1912: 102, pl. 14  
figs. 15-19, 48°N., 15°W., 300 m. (Type not traced).  
South-eastern Tasmania (Allan, 1945).  
This record might represent *T. dussumieri*.

### **Architeuthidae Pfeffer, 1900**

*Architeuthis kirki* C.W. Robson, 1887  
*Architeuthis kirki* C.W. Robson, 1887: 155. Cape  
Campbell, Cook Strait, New Zealand. (NMNZ).  
One stranded specimen was reported from Wingan  
Inlet, Vic., (Allan, 1948; Macpherson and Gabriel,  
1963). This specimen is not traced in any of the Australian  
state museums and must be presumed lost.

\**Architeuthis* sp.  
Tasman Sea.  
One specimen (a juvenile female) in Museum of  
Victoria collections.

### **Histioteuthidae Verrill, 1881**

- + *Histioteuthis atlantica* (Hoyle, 1885)  
*Histiopsis atlantica* Hoyle, 1885c: 201. Mid-south  
Atlantic ('Challenger' Stn 333), 2025 fm, 35°36'S.,  
21°12'W. (BMNH).  
Southern Tasman Sea.
- + *Histioteuthis corona corona* (Voss & Voss, 1962)  
*Calliteuthis corona* Voss & Voss, 1962: 191, figs. 5a-f,  
6b-d, 29°10'N., 88°00'W., 521 m. (USNM).  
NW Shelf, Coral Sea.
- + *Histioteuthis bonnellii corpuscula* Clarke, 1980  
*Histioteuthis bonnellii corpuscula* Clarke, 1980: 225,  
text-figs. Off Durban, South Africa (from sperm whale  
stomach). (Will be lodged in BMNH).  
Southern Tasman Sea.
- + *Histioteuthis dofleini* (Pfeffer, 1912)  
*Stigmatoteuthis dofleini* Pfeffer, 1912: 288. Sagami  
Bay, Japan. (Type not traced).  
Coral Sea.
- \**Histioteuthis eltaninae* N. Voss, 1969  
*Histioteuthis eltaninae* N. Voss, 1969: 755, figs.  
40°05'S., 149°55'W., 880 m. (USNM).  
Coral Sea, Tasman Sea.

+ *Histioteuthis macrohista* N. Voss, 1969  
*Histioteuthis macrohista* N. Voss, 1969: 845, figs.  
Tasman Sea, 45°10'S., 160°10'E., 700-780 m. (USNM)  
Tasman Sea, Great Australian Bight.

*Histioteuthis meleagroteuthis* (Chun, 1910)  
*Calliteuthis meleagroteuthis* Chun, 1910 170. Fonseca  
Bay, west coast of Central America. Neotype selected by  
N. Voss, 1969. South Pacific Ocean, 35°45'S., 176°20'E.,  
549-686 m. (AUZ).  
Coral Sea, Tasman Sea, NW Shelf.

*Histioteuthis miranda* (Berry, 1918)  
*Calliteuthis miranda* Berry, 1918: 221, pls. 61, 62, text-  
figs. 5-9, 250 fm SE × S of Gabo Island, Vic. Neotype  
selected by N. Voss, 1969: 801. South Pacific, 37°54'S.,  
178°56'E., 732-448 m. (USNM).  
Southern Tasman Sea, and Tas.

+ *Histioteuthis celetaria pacifica* (G. Voss, 1962)  
*Calliteuthis celetaria pacifica* G. Voss, 1962: 174.  
Dammi Is., between Jolo and Tawi Tawi, Philippines, 432  
m. (USNM).  
NW Shelf.

+ *Histioteuthis reversa* (Verrill, 1880)  
*Calliteuthis reversa* Verrill, 1880: 393. Western North  
Atlantic, 39°53'N., 70°58'30"W., 666 m. (USNM).  
Southern Tasman Sea.

### **Bathyteuthidae Pfeffer, 1900**

+ *Bathyteuthis abyssicola* Hoyle, 1885  
*Bathyteuthis abyssicola* Hoyle, 1885a: 272, fig. 108.  
Southern Ocean, 1600 fm. (BMNH).  
Coral Sea, Tasman Sea.

### **Ctenopterygidae Grimpe, 1922**

+ *Ctenopteryx siculus* (Verany, 1851)  
*Sepioteuthis sicula* Verany, 1851: 75, pl. 27. Messina.  
(Type not traced).  
Coral Sea, Tasman Sea.

### **Brachioteuthidae Pfeffer, 1908**

+ *Brachioteuthis riisei* (Steenstrup, 1882)  
*Tracheloteuthis riisei* Steenstrup, 1882: 294. Atlantic  
Ocean, 34°40'S., 07°W. (ZMC).  
Coral Sea, Tasman Sea.

### **Ommastrephidae Steenstrup, 1857**

\**Todaropsis eblanae* (Ball, 1841)  
*Loligo eblanae* Ball, 1841: 364, figs. 1-7. Shore of  
Dublin Bay. (Type not traced).  
Cor Tasman Sea; off Perth, WA.

\**Todarodes filippovae* Adam, 1975

*Todarodes filippovae* Adam, 1975: 3, pls. 1, 2. 35°-38°S., 66°-77°E. (Type not traced).  
Tasman Sea, Great Australian Bight.

+ \**Todarodes* sp.

NW Shelf, northern Tasman Sea.

\**Nototodarus gouldi* (McCoy, 1888)

*Ommastrephes gouldi* McCoy, 1888: 255, pls. 169, 170.  
Hobson's Bay, Port Phillip Bay, Vic. (NMV).  
Tasman Sea, Bass Strait, SA. southern WA.

+ \**Nototodarus philippinensis* G. Voss, 1962

*Nototodarus sloani philippinensis* G. Voss, 1962: 175.  
Off Atalaya Point, Batag Is., east coast of Luzon, Philippines, 565 m. (USNM).

NW Shelf, Coral Sea, northern Tasman Sea.

\**Ommastrephes bartrami* Lesueur, 1821)

*Loligo bartramii* Lesueur, 1821: 90, pl. 7. Type locality not cited. (Type lost).

Southern offshore waters from southern Qld to NW Cape, WA.

*Dosidicus gigas* (d'Orbigny, 1847)

*Ommastrephes gigas* d'Orbigny, 1847: 50, pl. 4. Chile. (Type not traced).

Qld, NSW (Brazier, 1892).

These records certainly do not represent *D. gigas*.

+ \**Symplectoteuthis luminosa* Sasaki, 1915

*Symplectoteuthis luminosa* Sasaki, 1915: 144, pl. 4 figs. 7-13. 6 miles off Misaki coast, 700 fm. (MSTU).

Coral Sea, Tasman Sea.

\**Symplectoteuthis oualaniensis* (Lesson, 1830)

*Loligo oualaniensis* Lesson, 1830: 240, pls. 1, 2. Oualan (Kusaie, Caroline Islands). (MNHN).

Coral Sea, Tasman Sea, NW Shelf.

+ \**Symplectoteuthis* sp.

Coral Sea, northern Tasman Sea.

This is the species *without* dorsal light organs (Clarke, 1965).

\**Ornithoteuthis volatilis* (Sasaki, 1915)

*Ommastrephes volatilis* Sasaki, 1915: 138, pl. 4 figs. 1-6. Off Atami, Sagami Province. (MSTU).

Coral Sea, Tasman Sea.

\**Hyaloteuthis pelagica* (Bosc, 1802)

*Sepia pelagica* Bosc, 1802: 46, pl. 1 figs. 1, 2. Stomach content of dolphin. (Type not traced).

Coral Sea, Tasman Sea.

### Thysanoteuthidae Keferstein, 1866

+ \**Thysanoteuthis rhombus* Troschel, 1857

*Thysanoteuthis rhombus* Troschel, 1857: 70, pl. 4 fig. 12; pl. 12 fig. 104. Messina. (Type not traced).

North-western Australia; Tasman Sea off north-east Tasmania.

### Chiroteuthidae Gray, 1849

*Chiroteuthis imperator* Chun, 1908

*Chiroteuthis imperator* Chun, 1908: 88. Nias South Canal, 0°15'N., 98°08'E., trawl, 614 m. (ZMB).

Tasman Sea; north-western Australia.

+ \**Chiroteuthis* sp.

Tasman Sea.

### Mastigoteuthidae Verrill, 1881

+ \**Mastigoteuthis cordiformis* Chun, 1980

*Mastigoteuthis cordiformis* Chun, 1908: 88. South of Pulo Nias, Sumatra. (ZMB).

Tasman Sea; north-western Australia.

*Mastigoteuthis grimaldii* (Joubin, 1895)

*Chiroteuthis grimaldii* Joubin, 1895b: 38, pls. 3-5. 39°42'59"N., 33°21'39"W., 1445 m. (Near Corvo Island, Azores). (OMM).

Eastern Tasmania (Allan, 1945).

Due to the absence of described characters, this species cannot be separated with any certainty from five other species of the genus, and therefore is considered a *nomen dubium* (Young, 1972).

+ \**Mastigoteuthis hjorti* Chun, 1913

*Mastigoteuthis hjorti* Chun, 1913: 6, pl. 2 fig. 1. Near 36°N., 40°W., 32°N., 33°W. and 36°05'N., 43°58'W. (ZMB).

Tasman Sea.

+ \**Mastigoteuthis magna* Joubin, 1913

*Mastigoteuthis magna* Joubin, 1913: 1 pl. 31 44'30"N., 42°39'W., 3465 m. (OMM).

East of Broken Bay, NSW.

+ \**Mastigoteuthis* sp.

Tasman Sea.

This species might be the same as that described as *M. grimaldii* (Allan, 1945).

### Grimalditeuthidae Pfeffer, 1900

+ \**Grimalditeuthis bomplandii* (Verany, 1837)

*Loligopsis bomplandii* Verany, 1837: 99, pl. 1, 29 N., 39°W. (Type not traced).

Tasman Sea.

### Joubiniteuthidae Naef, 1922

+ \**Joubiniteuthis portieri* (Joubin, 1912)

*Chiroteuthis portieri* Joubin, 1912: 396. 29°03'N., 16°08'30"W., in the region of the Salvage Islands. (OMM).

Coral Sea, Tasman Sea.

## Cranchiidae Prosch, 1849

In many cases species identifications are not attempted as this family is currently being revised by N. Voss. For generic definitions see N. Voss (1980).

\* *Cranchia scabra* Leach, 1817

*Cranchia scabra* Leach, 1817: 140. No locality cited. (BMNH).

Coral Sea, Tasman Sea.

\* *Liocranchia reinhardtii* (Steenstrup, 1856)

*Leachia reinhardtii* Steenstrup, 1856: 200. 15°19'N., 24°54'W. (Atlantic Ocean). (ZMC).

Coral Sea, Tasman Sea.

+ \* *Liocranchia valdiviae* Chun, 1906

*Liocranchia valdiviae* Chun, 1906: 84. No locality cited. (Type not traced, possibly ZMB).

Coral Sea, northern Tasman Sea.

*Pyrgopsis pacificus* (Issel, 1908)

*Zygaenopsis pacificus* Issel, 1908: 223, pl. 10 figs. 33-44. Between Tahiti and Pango-Pango. (Type not traced).

See *Leachia* spp.

\* *Leachia* spp.

Coral Sea, Tasman Sea.

Voss (1980) refers *Pyrgopsis* to *Leachia*.

+ \* *Helicocranchia pfefferi* Massy, 1907

*Helicocranchia pfefferi* Massy, 1907: 382. 5 miles W. 3/4 N. of Tearaght Ltd. Co. Kerry, 51°54'N., 11°57'W., 411-378 fm. (BMNH).

Coral Sea, Tasman Sea.

\* *Bathothauma lyromma* Chun, 1906

*Bathothauma lyromma* Chun, 1906: 86. Atlantic. (ZMB).

Coral Sea, Tasman Sea.

+ \* *Sandalops melancholicus* Chun, 1906

*Sandalops melancholicus* Chun, 1906: 86. Atlantic. (ZMB).

Coral Sea, Tasman Sea.

*Taonius suhmii* (Lankester, 1884)

*Procalistes suhmii* Lankester, 1884: 317, fig. 1, 2. 34°50'S., 155°28'E. (BMNH).

Type locality and Southern Ocean (Hoyle, 1886).

\* *Taonius* sp.

Coral Sea, Tasman Sea.

\* *Megalocranchia abyssicola* (Goodrich, 1896)

*Taonius abyssicola* Goodrich, 1896: 17, pl. 5 figs. 72-80. Laccadive Sea; 902 and 1370 fm. (IMC).

Coral Sea, Tasman Sea.

*Megalocranchia megalops* (Prosch, 1849)

*Cranchia* (*Owenia*) *megalops* Prosch, 1849: 71. Off Iceland and the Faroes. (ZMC).

Brandt's (1983) record is referable to *Teuthowenia*.

*Megalocranchia pardus* Berry, 1916

*Megalocranchia pardus* Berry, 1916: 61, pl. 9 fig. 2, text-figs. Beach on Sunday Island, Kermadec Group. (Type not traced).

NSW, south-eastern Tas. (Allan, 1945).

+ \* *Teuthowenia* sp.

Tasman Sea, Southern Ocean.

## ORDER OCTOPODA

### SUBORDER CIRRATA

This difficult group is under revision by G.L. Voss.

### Cirroteuthidae Keferstein, 1866

*Cirroteuthis pacifica* Hoyle, 1885

*Cirroteuthis pacifica* Hoyle, 1885b: 235. Pacific Ocean, between New Guinea and Australia, surface. (BMNH).

Recorded in Australian waters from type locality only.

### Opisthoteuthidae Verrill, 1896

\* *Opisthoteuthis persephone* Berry, 1918

*Opisthoteuthis persephone* Berry, 1918: 290, pls. 81, 82, 85-88. 260 fm. 42 miles south and east of Genoa Peak, Victoria. (AM).

Continental slope off NSW, Vic. and Tas. Also recorded from Eucla, WA. (Berry, 1918).

*Opisthoteuthis pluto* Berry, 1918

*Opisthoteuthis pluto* Berry, 1918: 284, pls. 81-85, 350-450 fm. 129°28'E., Great Australian Bight. (Type missing from AM).

Known in Australian waters from the type locality only.

### SUBORDER INCIRRATA

#### Bolitaenidae Chun, 1911

\* *Japetella* sp.

Coral Sea, Tasman Sea.

*Eledonella sheardi* Allan, 1945

*Eledonella sheardi* Allan, 1945: 345, pl. 26 figs. 22-27. 28°44'S., 153°57'E. (near Cape Byron, N. coast, NSW), slope. (AM).

Known in Australian waters from the type locality only.

#### Amphitretidae Hoyle, 1886

\* *Amphitretus pelagicus* Hoyle, 1885

*Amphitretus pelagicus* Hoyle, 1885b: 235. Near the Kermadec Islands, South Pacific; on the surface. (BMNH).

Coral Sea, Tasman Sea, south-western Tas.



## Vitreledonellidae Robson, 1930

- + \**Vitreledonella* sp.  
Coral Sea, Tasman Sea.

## Octopodidae d'Orbigny, 1845

The taxonomy of Australian Octopodidae is desperately in need of a detailed study. The following list should be regarded only as tentative and must be used with caution. Other than those records taken from published papers, distributional data are based on specimens in the Museum of Victoria collections. With very few exceptions no attempt has been made to include records from the collections of other museums.

- \**Octopus aegina* Gray, 1849  
*Octopus aegina* Gray, 1849: 7. Type locality unknown. (BMNH).  
Southern Qld, Arafura Sea.

- \**Octopus australis* Hoyle, 1885  
*Octopus australis* Hoyle, 1885b: 224. Port Jackson, NSW, 6-15 fm. (BMNH).  
Coastal waters from NSW southwards to SA, including Bass Strait.

- Octopus boscii* (Lesueur, 1821)  
*Sepia boscii* Lesueur, 1821: 101. 'New Holland.' (Type not traced).  
This is a *nomen nudum* (Robson, 1929).

- Octopus caerulescens* Blainville, 1826  
*Octopus caerulescens* Blainville, 1826: 129. Dorre Is., Shark Bay, WA. (Type not traced).  
Australian Seas (Brazier, 1892).

- Octopus cordiformis* (Quoy & Gaimard, 1832)  
*Pinnoctopus cordiformis* Quoy & Gaimard, 1832: 87, pl. 6 fig. 3. Tasman Bay, New Zealand. (Type not traced).  
Although listed by Roper (1983) no Australian record of the species is known.

- Octopus cornutus* (Owen, 1881)  
*Tritaxeopus cornutus* Owen, 1881: 131, pl. 22. Australia. (Type not traced).  
Known only from the type.

- Octopus cyanea* Gray, 1849  
*Octopus cyanea* Gray, 1849: 15. Coasts of New Holland. (BMNH).  
Port Jackson, NSW and Moreton Bay, Qld. (Brazier, 1892).

- \**Octopus duplex* Hoyle, 1885  
*Octopus duplex* Hoyle, 1885: 226. Off Twofold Bay, Australia, 150 fm. ('Challenger' Stn 163A). (BMNH).  
Eastern Bass Strait; Portsea, Vic.

- Octopus pictus fasciata* Hoyle, 1886  
*Octopus pictus* var. *fasciata* Hoyle, 1886: 94, pl. 8 fig. 3. Port Jackson, Australia, 6-15 fm. (BMNH).  
See *Hapalochlaena maculosa* (Hoyle, 1883).

- Octopus filamentosus* Blainville, 1826  
*Octopus filamentosus* Blainville, 1826: 188. Mauritius. (Type not traced).  
Adelaide (Robson, 1929).

- \**Octopus flindersi* Cotton, 1932  
*Octopus flindersi* Cotton, 1932: 543, figs. 4, 6. Largs Bay, SA. (SAM).  
Vic., SA.

- Octopus granulatus* Lamarek, 1798  
*Octopus granulatus* Lamarek, 1798: 130. Type locality unknown. (Type not traced).  
See *Octopus rugosus* (Bosc, 1792).

- \**Octopus macropus* Risso, 1826  
*Octopus macropus* Risso, 1826: 3. Mediterranean. (Type lost).  
E. of Noosa, Qld.

- \**Octopus membranaceus* Quoy & Gaimard, 1832  
*Octopus membranaceus* Quoy & Gaimard, 1832: 89, pl. 6 fig. 5. Port Dorey, New Guinea. (MNHNP).  
Moreton Bay and Gulf of Carpentaria, Qld.

- + \**Octopus microphthalmus* Goodrich, 1896  
*Octopus microphthalmus* Goodrich, 1896: 20, pl. 5 figs. 83, 84. Port Blair, Andamans. (IMC).  
Bass Strait, Port Phillip Bay, Vic.

- \**Octopus pallidus* Hoyle, 1885  
*Octopus boscii* var. *pallida* Hoyle, 1885: 223. Off East Moncoeur Is., Bass Strait, 38 fm ('Challenger' Stn 162). (Type not traced).  
Southern Australia from NSW to the Great Australian Bight, including Bass Strait.

- Octopus peronii* (Lesueur, 1821)  
*Sepia peronii* Lesueur, 1821: 101. Dorre Island, Shark Bay, WA. (Type not traced).  
Considered as *nomen nudum* by Robson (1929).

- Octopus pictus* Brock, 1882  
*Octopus pictus* Brock, 1882: 603, pl. 37 figs. 3. ?Sydney, NSW. (Type not traced).  
See *Hapalochlaena maculosa* (Hoyle, 1883).

- Octopus polyzenia* Gray, 1849  
*Octopus polyzenia* Gray, 1849: 13. Port Essington, NT. (BMNH).  
See *O. rugosus*.

- Octopus pustulosus* Blainville, 1826  
*Octopus pustulosus* Blainville, 1826: 186. Dorre Is., Shark Bay, WA. (Type not traced.)

- Octopus rugosus* (Bosc, 1792)  
*Sepia rugosa* Bosc, 1792: 24, pl. 5 figs. 1, 2. Senegal. (Type not traced).  
Port Essington, NT; coast of NSW and Southport, Qld (Robson, 1929).  
Robson (1929) considered *O. granulatus* and *O. polyzenia* to be synonyms.

*Octopus superciliosus* Quoy & Gaimard, 1832

*Octopus superciliosus* Quoy & Gaimard, 1832: 88, pl. 6 fig. 4, Westernport Bay, Vic. (MNHN).  
Vic., Bass Strait.

*Octopus tenebricus* E.A. Smith, 1884

*Octopus tenebricus* Smith, 1884: 35, pl. 4 figs. B-B3, Port Denison, Qld, 3-4 fm. (BMNH).  
Known only from the type locality.

*Octopus tetricus* Gould, 1852

*Octopus tetricus* Gould, 1852: 474, fig. 588, Near Sydney, NSW. (Type not traced).  
NSW (Gould, 1852); WA. (Joll, 1976, 1977, 1977a).

*Octopus variolatus* Blainville, 1826

*Octopus variolatus* Blainville, 1826: 186, fig. 43, Australia. (Type not traced).

*Octopus vulgaris* Lamarck, 1798

*Octopus vulgaris* Lamarck, 1798: 130, Type locality not traced. (Type not traced).  
Australia (Cox, 1882).

*Octopus westerniensis* Quoy & Gaimard, 1832

This name was used by Ferussac and d'Orbigny (1835: 48; pl. 10 fig. 3) for *Octopus superciliosus* Quoy & Gaimard, 1832. The error was corrected in their text. *Octopus westerniensis* seems to have been Quoy's earlier manuscript name for *O. superciliosus*.

*Hapalochlaena maculosa* (Hoyle, 1883)

*Octopus maculosus* Hoyle, 1883: 319, pl. 3, ?Sydney, NSW.

Southern Australia from Qld to southern WA.

This name replaces *O. pictus* Brock, 1852 which was preoccupied.

*Hapalochlaena lunulata* (Quoy & Gaimard, 1832)

*Octopus lunulatus* Quoy & Gaimard, 1832: 86, pl. 6 figs. 1, 2, New Ireland. (MNHN).  
Northern Australia.

*Eledone* sp.

This is a new species of *Eledone* and will be described in a separate publication.

*Grimpella thaumastocheir* Robson, 1928

*Grimpella thaumastocheir* Robson, 1928: 108, figs. 1-4, Port Lincoln, SA. (BMNH).  
Type locality only.

## **Tremoctopodidae Brock, 1882**

*Tremoctopus violaceus* delle Chiaje, 1830

*Tremoctopus violaceus* delle Chiaje, 1830: pls. 70, 71, Mediterranean Sea. (Type not traced).  
NSW.

## **Ocythoidae Gray, 1849**

*Ocythoe tuberculata* Rafinesque, 1814

*Ocythoe tuberculata* Rafinesque, 1814: 29, Mediterra-

nean sea. (Type no longer extant).

Southern Australia from NSW to Great Australian Bight, WA.

## **Argonautidae Naef, 1912**

*Argonauta argo* Linnaeus, 1758

*Argonauta argo* Linnaeus, 1758: 708, 'M. Indico, Mediterraneo'. (BMNH?)

Vic. Also recorded from Qld and NSW (Brazier, 1892).

*Argonauta bottgeri* Maltzan, 1881

*Argonauta bottgeri* Maltzan, 1881: 163, pl. 6 fig. 7, Type locality not cited. (Type not traced).  
Australia (Brazier, 1892; Robson, 1931).

*Argonauta hians* Lightfoot, 1786

*Argonauta hians* Lightfoot, 1786: 44, Type locality unknown. (Type not traced).  
Northern Australia.

*Argonauta nodosa* Lightfoot, 1786

*Argonauta nodosa* Lightfoot, 1786: 96, Type locality unknown. (Type not traced).

Vic., Tas. Also recorded from northern Australia (Robson, 1931), NSW (Brazier, 1892) and SA (Cotton and Godfrey, 1940).

## **ORDER VAMPHYROMORPHA**

### **Vampyroteuthidae Thiele, 1915**

*Vampyroteuthis infernalis* Chun, 1903

*Vampyroteuthis infernalis* Chun, 1903: 88, fig. Off Cameroons-Congo River, 1200 m. (ZMB).  
Off south-eastern Tas.

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# Molluscan types in the Museum of Victoria

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Abstract. Boyd, S.E. and Phillips, J.U. 1985. Molluscan types in the Museum of Victoria. *Occ. Pap. Mus. Vict.* 2: 37-64.

Type specimens of 686 species of molluscs are held in the Museum of Victoria, including specimens purchased in the mid-nineteenth century from British collectors H. Cumming, R. Geale and L. Reeve. Details of these species are listed along with specimen details of the types. Possible type specimens of a further 232 species from Japan, described by Arthur Adams between 1860 and 1868, are detailed in an appendix.

## Introduction

The following list of type specimens of the Phylum Mollusca held in the Museum of Victoria, is offered as an aid to malacologists needing access to such information. Parts of this collection have been detailed previously by Smith (1968) and Smith and Robertson (1970).

The list is intended only as a guide to the whereabouts of the types, there has been no critical assessment of the species or their current taxonomic position.

The species are placed in the genera of the original descriptions, the genera are arranged into families following Kaas and Van Belle (1980) for the Amphineura, Wenz (1938-44) for the prosobranch gastropods, B.J. Smith (pers. comm.) for the pulmonate gastropods, R. Burn (pers. comm.) for the opisthobranch gastropods and Moore (1969) for the bivalves. Species of Amphineura are arranged into families according to Kaas and Van Belle (1980). The present authors recognise that some of these family designations are now out of date and have adjusted any major errors, e.g., the family Pyramidellidae is placed in the sub-class Opisthobranchia. Where a species is described in a genus not included in the above publications it is placed in the family to which it has been assigned by its author and marked with an asterisk. Species are arranged alphabetically within each family.

In each citation following the species, genus, author and date, are the page and plate numbers of the original reference; full details of all references are given in the bibliography. The type locality is given in full, as published; where there are any discrepancies between this information and that with the specimen(s) or where

the Museum of Victoria (NMV) paratypes are not from the type locality this information is given in brackets. Where no locality data are given this indicates the type locality is unknown. Where several localities are given in the description the type locality is restricted to that of the holotype when this has been possible to establish.

The status of each type is given. Where a type lot consists of several specimens all are referred to as syntypes unless the author specifically selected a specimen to be the holotype; figured specimens thus do not automatically become holotypes. The term 'cotype,' although commonly used by many of the authors, is not used at all in this publication; all specimens are assigned syntype or paratype status. Lectotypes are only referred to where earlier authors have published on such a selection.

The NMV registration number (F. . .) is given, followed by a figure in brackets referring to the number of specimens in the particular lot. Unless otherwise stated all specimens refer to whole, dry, shell specimens; in the case of bivalves, if the specimens are not whole (i.e., are single or unmatched valves) this is indicated by the letter v. Preserved specimens are designated as such, all are stored in 70% alcohol.

## History

The history of the Mollusca collections of the Museum of Victoria extends back to the early years of the Museum in the mid-nineteenth century. The first director of the National Museum of Victoria, Sir Frederick McCoy, purchased a large number of specimens from British collectors including Mr Hugh Cuming, Mr Lovell Reeve



and Mr Robert Geale. An extensive correspondence is available in the Museum's archives documenting these purchases and some of McCoy's financial problems in funding the acquisitions.

Type specimens were included in some of these purchases, unfortunately only rarely labelled as such, making identification of type lots extremely difficult. Reeve often described species from a syntype series and the series may have been split subsequent to the description. As the majority of Reeve type specimens are housed in the British Museum (Natural History) specimens in the Museum of Victoria are only considered as possible types when they are not represented in the British Museum (Natural History) type collection.

Among the shells purchased from Geale were many species described by Mr Arthur Adams from Japan. Some of these specimens may be types, as suggested in this extract from a letter written by Geale to McCoy dated 30 May 1874.

'as the Japan shells are the actual collection of Mr Adams they are consequently the type shells.' Unfortunately these specimens were not labelled as types and because of the poor descriptions and absence of figures are difficult now to confidently identify as such. With few exceptions the only locality data with the specimens is 'Japan' while the published type localities are considerably more detailed than this. Because of the lack of sound evidence on the type status of these specimens they have not been included in the main list of type holdings but are presented as an appendix of possible types of species described by Arthur Adams. The appendix is arranged as an alphabetic list of species giving the genus of the original description, the reference and the NMV registration number with the number of specimens in brackets. This list of species accounts for only about half of the Adams collection purchased by the National Museum of Victoria through Geale; the remainder are presumed to bear manuscript names as they have not been traced in the literature.

Acquisition of type specimens by the Museum subsequent to these early purchases was mainly by donation or exchange directly from the author; exceptions to this were the large number of syntypes and paratypes of a number of authors included in the Gatliff and Gabriel collections which the museum acquired in 1935 and 1963 respectively.

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### Abbreviations

AM The Australian Museum, Sydney  
BM(NH) British Museum (Natural History), London  
NMV Museum of Victoria, Melbourne  
formerly National Museum of Victoria,  
Melbourne

OM Queensland Museum, Brisbane  
SAM South Australian Museum, Adelaide

An asterisk (\*) indicates genera not included in Moore (1960), Wenz (1938-44), or Moore (1969). See introduction.

## CLASS AMPHINEURA

### Lepidopleuridae

*badius*, *Lepidopleurus* Hedley & Hull, 1909: 260, pl. 73 figs. 1, 2. Several localities given. Holotype (AM) from Long Reef, Narrabeen (Sydney), N.S.W. (NMV paratypes: Long Reef, Manly, N.S.W.). Paratypes: F16404(2).

*erratus*, *Terenochiton* Hull, 1923a: 159, pl. 24 figs. 6-9. Rabbit or Mistaken Islands, King George Sound, W.A. (NMV paratypes: Rabbit Island, King George Sound, W.A.). Paratypes: F17982(2).

### Subterenochitonidae

*gabrielii*, *Ischnochiton* Hull, 1912: 120, pl. 8 fig. 2a-d. Westernport Bay, Vic., dredged 6-8 fm between Phillip and French Islands. Holotype: F732; paratype: F27312(1).

### Ischnochitonidae

*acomphus*, *Ischnochiton* Hull & Risbec, 1930: 278, pl. 20 figs. 1-8. New Caledonia (specimen label 'Baie de l'Orphelinat, Noumea, New Caledonia'). Holotype: F16711; paratype: F27311(1).

*araucarianus*, *Ischnochiton* Hedley, 1898: 100, figs. 3-6. Isle of Pines, New Caledonia. Paratype: F16712(1).

*bardwelli*, *Ischnochiton* (*Ischiton*) Ashby & Cotton, 1934: 217, pl. 13 fig. 5. Off Broome, W.A., 7 fm. Holotype: F17977.

*bruniensis*, *Ischnochiton atkinsoni* Ashby, 1927: 111. Lunawanna, Bruny Island, Tas. (NMV paratypes: South Bruny Is., Tas.). Paratypes: F16710(2).

*decorata*, *Ischnochiton crispus* Sykes, 1896: 87. Port Phillip Bay, Vic. Holotype: F683.

*dilatus*, *Stenochiton pilsbryanus* Iredale & Hull, 1924: 287, pl. 36 fig. 11. W.A., from Lucky Bay, 25 miles east of Esperance, to Fremantle. (NMV paratypes: Quarantine Station, Albany, W.A.). Paratypes: F16089(10).

*divaricata*, *Ischnoradsia australis* Hull, 1923b: 196, pl. 27 figs. 1a-c. Caloundra and Pt. Cartwright, south Qld. (NMV syntype: Point Cartwright, Qld). Syntype: F17976(1).

*falcatus*, *Ischnochiton* Hull, 1912: 121, pl. 8 figs. 2a-d. Westernport Bay, Vic., dredged in 6-8 fm between Phillip and French Islands. Holotype: F732; paratype: F27312(1).

*laetior*, *Ischnochiton examinandus* Hull, 1923a: 160, pl. 24 figs. 14-17. Caloundra and Point Cartwright, Queensland. Holotype (AM) from Caloundra. (NMV paratypes F13084, F15158: Caloundra; F13085: Point Cartwright). Paratypes: F13084(4), F13085(4), F15158(1).

*lincolnsensis*, *Ischnochiton atkinsoni* Ashby, 1920b: 275, pl. 12 figs. 5a-b. Several localities given. Holotype (SAM) from Port Lincoln, S.A. (NMV paratype: San Remo, Vic.). Paratype: F17988(1).



*periousia*, *Callistelasma* Iredale & Hull, 1925a: 353, pl. 40 fig. 8. Northern Qld (Mackay to Cooktown). (Holotype (QM) and NMV paratypes: Grassy Island, Whitsunday Group, Qld). Paratypes: F15560(2).  
*pura*, *Ischnochiton* (*Haploplax*) Sykes, 1896: 88, pl. 6 figs. 3, 3a. Port Phillip Bay, Vic. Holotype: F681; paratypes: F27314(2).  
*wilsoni*, *Ischnochiton* Sykes, 1896: 89, pl. 6 figs. 1, 1a. Port Phillip Bay, Vic. Holotype: F682; paratype: F27315(1).

## Mopaliidae

*tasmanica*, *Kopionella* Ashby, 1920a: 268, pl. 11 figs. 1a, c. Several localities given. Holotype (SAM) From Lunawanna, Bruny Is., Tas. (NMV paratype: d'Entrecasteaux Channel, Tas.). Paratype: F16720(1).

## Schizochitonidae

*paucipustulosa*, *Lorica* Hull, 1923b: 197, pl. 27 fig. 3. Rabbit Island, King George Sound, W.A. Paratype: F16088(1).

## Chitonidae

*caeruleus*, *Chiton marmoreus* Winkley, 1894: 78. Eastport, Maine, U.S.A. Paratype: F16715(1).  
*funereus*, *Chiton* Hedley & Hull, 1912: 279, pl. 13 figs. 8, 8a. Lord Howe Island. Paratypes: F31034(4).  
*helenae*, *Onithella* Mackay, 1933: 345, pl. 18 figs. 1-13. Alma Bay, Magnetic Is., Qld. Holotype F970; paratypes: F969(valves), F27316(girdle), F17980(1).  
*inornatus*, *Chiton* Tenison-Woods, 1881: 82, figs. 8, 9. Launceston, north Tas. Holotype: F637.  
*raceki*, *Componochiton* Milne, 1963: 25, figs. 1-5. E. of Newcastle, N.S.W., 160 fm. (NMV paratype: off Port Stephens, N.S.W., 75 fm). Paratype: F23568(1 preserved).  
*tilbrookii*, *Lucilina* Milne, 1958: 152, figs. 1-4. Heron Island, Capricorn Group, Qld. Holotype: F18471; paratype: F18061(1 preserved).  
*torri*, *Enoplochiton* Bastow & Gatliff, 1907: 27, pls. 3-4 figs. 1-12. Queensland. Holotype: F16375; paratypes: F16374(2), F17986(3).

## Acanthochitonidae

*complanatus*, *Acanthochiton* Hull, 1925: 112, pl. 21 figs. 2a-c. Magnetic Island, Townsville, Qld. Paratypes: F17979(3), F15155(1).  
*debilior*, *Acanthochiton crocodilus* Iredale & Hull, 1925b: 87, pl. 10 fig. 13. Port Jackson and Shellharbour, N.S.W. (NMV paratype: Bottle and Glass Rocks, Vauculuse, N.S.W.). Paratype: F15124(1).  
*doubtlessensis*, *Acanthochiton zealandicus* Ashby, 1926: 12, pl. 1 figs. 2a-c, pl. 2 fig. 6. Doubtless Bay, New Zealand. Paratype: F16376(1).  
*gabrielii*, *Acanthochiton* (*Notoplax*) Ashby, 1922: 10, pl. 3 fig. 3. Caloundra, Qld. Holotype: F447.  
*gatliffi*, *Acanthochiton* Ashby, 1919: 398, pl. 42 figs. 2-5. Port Lincoln, S.A. (NMV paratypes: Point Cook, Port Phillip Bay, Vic., 8 fm) Paratypes: F27309(1), F27310(1),

*glyptus*, *Acanthochites* (*Notoplax*) Sykes, 1896: 92, pl. 6 figs. 5, 5a. Port Phillip Bay, Vic. Holotype: F680; paratype: F27307(1).  
*haurakiensis*, *Notoplax* (*Amblyplax*) *mariae* Ashby, 1926: 26, pl. 2 figs. 3a-c. Hauraki Gulf, New Zealand, 20 fm. Paratypes: F16755(2).  
*leuconotus*, *Acanthochites* Hedley & Hull, 1912: 275, pl. 12 figs. 4a-f. Lord Howe Island. Paratype: F27308(1).  
*macrocystialis*, *Acanthochiton* Ashby, 1924b: 324, pl. 31 figs. 3a-c. Off Point Puer, near Port Arthur, Tas. Paratypes: F16717(2), F17984(1).  
*occidentalis*, *Glyptelasma matthewsi* Iredale & Hull, 1925b: 95, pl. 11 figs. 18-20. Middleton Beach, King George Sound, W.A. Paratype: F15164(1).  
*oliveri*, *Notoplax* (*Amblyplax*) Ashby, 1926: 18, pl. 1 figs. 4a-c. Between Kamoau and Tiri-tiri Islands, Hauraki Gulf, New Zealand, 20 fm. (NMV paratypes: between Tiri-tiri and Kawau Islands, Hauraki Gulf, New Zealand, 20 fm). Paratypes: F16713(2).  
*pilsbryi*, *Acanthochites* Sykes, 1896: 91, pl. 6 figs. 6, 6a. Port Phillip Bay, Vic. Holotype: F678.  
*rotnestensis*, *Notoplax* Ashby, 1929: 47, figs. 10-13. Bathurst Point, Rottnest Island, W.A. Paratype: F16718(1).  
*thackwayi*, *Acanthochiton* Ashby, 1924a: 318, pl. 31 figs. 1-2. Fly Point, Port Stephens, N.S.W. (NMV paratypes: Shellharbour, N.S.W.). Paratypes: F17978(2).  
*wilsoni*, *Acanthochites* (*Notoplax*) Sykes, 1896: 92, pl. 6 figs. 2, 2a. Port Phillip Bay, Vic. Holotype: F679.

## CLASS: GASTROPODA

### SUBCLASS: PROSOBRANCHIA

#### Neomphalidae

*\*fretterae*, *Neomphalus* McLean, 1981: 294, figs. 1-12. Oyster Bed, Galapagos Rift. 0°47.5'N., 86°08.0'W., 2478-2490 m. (NMV paratype F31525, Garden of Eden, Galapagos Rift, 0°47.69'N., 86°07.74'W., 2482-2518 m). Paratypes: F31524-5(2 preserved)

#### Haliotidae

*granti*, *Haliotis* Pritchard & Gatliff, 1902: 183, pl. 10. Shoreham, Westernport, Vic. Holotype: F689.  
*planilirata*, *Haliotis* Reeve, 1846: sp. 62. Syntype: F1820(1).  
*pustulata*, *Haliotis* Reeve, 1846: sp. 52. Syntypes: F1822(2).

#### Scissurellidae

*ornata*, *Scissurella* May, 1909: 57, pl. 6 figs. 4, 5. Frederick Henry Bay, Tas. Paratype: F30456(1).

#### Fissurellidae

*corolla*, *Puncturella* (*Cranopsis*) Verco, 1908: 193, pl. 11 figs. 1-5. Off Cape Jaffa, S.A., 130 fm. Paratype: F31648(1).

*gabensis*, *Notomella* Gabriel, 1962: 178, figs. 10-12. Off Gabo Is., Vic., 50 fm. Holotype: F20840; paratype: F20841(1).  
*metcalfi*, *Fissurella* Reeve, 1850a: sp. 75. Syntype: F697(1).  
*mus*, *Fissurella* Reeve, 1850a: sp. 120. Syntype: F25252(1).  
*pritchardi*, *Lucapinella* Hedley, 1895: 198, figs. 3-7. Port Phillip, Vic. Holotype: F26254(preserved).

## Patellidae

*hepatica*, *Patella* Pritchard & Gatliff, 1903a: 194. Several localities listed; holotype from Flinders, Vic. Holotype: F446.  
*victoriana*, *Patella* Singleton, 1937: 391, pl. 23 fig. 1. Victoria. Holotype: F492; paratype: F493(1).

## Acmaeidae

*ater*, *Chiazacmaea* Macpherson, 1955: 250, pl. 16 figs. 3, 4. Bargara, Qld. Holotype and paratype: F13974(1 & 1).  
*corrosa*, *Notoacmaea* (*Conacmaea*) Oliver, 1926: 578, pl. 99 fig. 5. Blackman's Bay, Derwent Estuary, Tas. Paratype: F30450(1).  
*cryptalirata*, *Chiazacmaea* Macpherson, 1955: 250, pl. 16 figs. 1, 2. Yeppoon, Qld. (NMV paratypes: Point Vernon, Qld). Holotype: F13856; paratypes: F13861(2).  
*granulosa*, *Notoacmaea* Macpherson, 1955: 252, pl. 17 figs. 3, 4. Warrnambool, Vic. Holotype: F16131; paratype: F5834(1).  
*heteromorpha*, *Chiazacmaea* Oliver, 1926: 562, pl. 99 fig. 1. Facing I., Qld. Paratype: F30385(1).  
*ivani*, *Patelloida profunda* Christiaens, 1975: 93, pl. 3 fig. 4. Dampier, north W.A. Holotype: F29551.  
*marrowi*, *Patelloida flammea* Christiaens, 1975: 76, pl. 2 fig. 7. Wallal Downs, Eighty Mile Beach, north W.A. Holotype: F29550.

## Trochidae

*anarensis*, *Solariella* Deli, 1972: 3, figs. 1, 2. West Arm, Mawson, Antarctica, 100 m. Holotype: F23468.  
*bularra*, *Astele* Garrard, 1961: 10, pl. 2 fig. 5. Off Cape Moreton, Qld. Paratypes: F21139(2 preserved).  
*cancellata*, *Ethalia*? Tate, 1879: 139, pl. 5 figs. 11a, c. Several localities given; holotype (SAM): Holdfast Bay, S.A. (NMV paratypes: S.A.). Paratypes: F30739(3).  
*dubia*, *Thalotia* Tenison-Woods, 1878: 59. Clark's Island, Tas. Holotype: F691.  
*funiculata*, *Fossarina* Tenison-Woods, 1881: 81, figs. 6-8. Holotype: F585.  
*galbina*, *Gibbula* Hedley & May, 1908: 114, pl. 22 fig. 2. 7 miles E. of Cape Pillar, Tas., 100 fm. Paratype: F30595(1).  
*gatliffi*, *Clanculus* Tomlin, 1924: 24, fig. W.A. and Wreck Reef, Coral Sea. (NMV syntypes: W.A.). Syntypes: F561(3), F13126(3), F30386(1).  
*hedleyi*, *Calliostoma* Pritchard & Gatliff, 1902: 182, pl. 9 fig. 4. Off Rhyll, Phillip Is., Westernport, Vic., 5-7 fm. (NMV paratypes: Victoria). Holotype: F520; paratypes: F499(1), F500(1).  
*kingensis*, *Cantharidus* Gabriel, 1956: 5, fig. 3. S.E. King I., Bass Strait. (specimen label: Elephant Shoal Reef, Bass Strait). Holotype: F16125; Paratypes: F16126(4).

*multigemmata*, *Venustas punctulata* Powell, 1952: 173, pl. 35 figs. 2, 3. Off Eastern Otago, New Zealand, 50-70 fm. Paratypes: F17889(2).  
*nevilli*, *Calliostoma* Sowerby, 1905: 185. Probably Ceylon. Syntype: F5180(1).  
*profundior*, *Euchellus* (sic.) May, 1916: 98, pl. 7 fig. 39. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F30410(1).

*tesserula*, *Gibbula* Tenison-Woods, 1881: 81, figs. 3-5. Holotype: F653.

## Skeneidae

*translucida*, *Cirsonella* May, 1916: 97, pl. 97 fig. 38. Off Thouin Bay, Tas., 40 fm. Paratypes: F30388(3).

## Cyclostrematidae

*bastowi*, *Cyclostrema* Gatliff, 1906: 3, pl. 2 figs. 8-10. Between Phillip and French Is., Westernport, Vic., 9 fm. Holotype: F555.  
*delectabile*, *Cyclostrema* Tate, 1899: 216, pl. 7 fig. 4. Fowler Bay, west coast of S.A. Paratype: F30729(1).  
*inscriptum*, *Cyclostrema* Tate, 1899: 216, pl. 7 figs. 3a, b. West coast of S.A. Paratype: F30736(1).  
*kilcundae*, *Cyclostrema* Gatliff & Gabriel, 1914: 95, pl. 15 figs. 8-10. Kilcunda, Vic. Holotype: F597; paratype: F30393(1).  
*microscopica*, *Cyclostrema* Gatliff & Gabriel, 1910: 85, pl. 18 figs. 5-7. Shoreham, Westernport, Vic. Holotype: F596; paratypes: F30394(2).  
*pachyston*, *Cyclostrema* Verco, 1907: 306, pl. 29 fig. 10. North-west of Cape Borda, S.A., 62 fm. Paratype: F30737(1).  
*vercoi*, *Cyclostrema* Gatliff & Gabriel, 1914: 96, pl. 15 figs. 11, 12. Off Wilson's Promontory, Vic. Holotype: F604; paratypes: F30392(7).

## Turbinidae

*arenacea*, *Leptothyra* Pritchard & Gatliff, 1902: 181, pl. 9 fig. 3. Off Rhyll, Westernport, Vic., 5-6 fm. Holotype: F594.  
*fugitiva*, *Leptothyra* Hedley, 1911: 102, pl. 18 figs. 18-20. 40 mi. S. of Cape Wiles, S.A., 100 fm. Paratypes: F502-5(4).  
*hedleyi*, *Liotia* Pritchard & Gatliff, 1899: 105, pl. 8 figs. 8-10. Flinders Beach, Westernport, Vic. Holotype: F562; paratypes: F563(1), F1454(1), F1935(2).  
*minima*, *Liotia* Tenison-Woods, 1878: 58. Type locality not given. (NMV specimens: Brighton, Vic.). Syntypes: F644(2).

## Phasianellidae

*nepeanensis*, *Phasianella* Gatliff & Gabriel, 1908: 366, pl. 21 figs. 9, 10. Ocean Beach, near Point Nepean, Vic. Holotype: F543; paratypes: F25765(2).  
*tomlini*, *Phasianella* Gatliff & Gabriel, 1921: 173, figs. 1-3. W.A. Holotype: F567; paratypes: F568(1), F5189(28), F30451(5).



## Phenacolepadiidae

*mirabilis*, *Phenacolepas* Sowerby, 1910: 66, fig. ?Australia. Syntype: F26844(1).

## Leptellidae

*tasmanica*, *Cocculinella* May, 1920: 67, pl. 17 fig. 25. Along East Coast, Tasmania, 40-70 fm. (NMV specimens: locality unknown). Probable paratype: F30586(1).

## Cyclophoridae

*coxi*, *Palaina* H. Adams, 1868: 16, pl. 4 fig. 14. Norfolk Is. Syntypes: F26765(2).

*rougeri*, *Cyclophorus* (*Amplus*) *eximius* Bullen, 1906: 12, pl. 2 figs. 1, 2. Mount Singalong, Sumatra. Syntype: F9443(1).

*tenuis*, *Pupina* Hedley, 1912: 268, pl. 10 fig. 62. In the Bottle-tree- scrub, W. of Gladstone, Port Curtis, Qld. Paratypes: F4939(23).

## ?Lavigeriidae

*globosa*, *Hirthis* Ancey, 1898: 144, pl. 9 fig. h. Lake Tanganika, Africa. Possible syntype: F23308(1).

*littorina*, *Hirthis* Ancey, 1898: 142, pl. 9 fig. g. Lake Tanganika, Africa. Possible syntype: F23309(1).

## Valvatidae

*pedderi*, *Valvata*(?) Smith, 1973: 430, figs. 1-9. S. of Lake Edgar, southern Tas. Paratypes: F27938(1), F27937(specimen in serial section), F27939(2 shells on SEM mounts).

## Littorinidae

*heardensis*, *Laevilitorina* (*Corneolitorina*) Dell, 1964: 285, fig. 36. Atlas Cove, Heard Is. (NMV paratype F5654 from Cape Gazert, Heard Is.). Holotype: F23569; paratypes: F5654(9 preserved), F6958(1 preserved).

\**macphersonae*, *Macquariella* Dell, 1964: 282, fig. 35. Fish Trap, Station H. Macquarie Island. Holotype: F23570; paratypes: F14255(12 preserved).

## Hydrobiidae

*elongatus*, *Potamopyrgus* May, 1921: 72, pl. 11 fig. 21. Apsley River, near Bicheno, Tas. Paratype: F30454(1).

*grampianensis*, *Bythinella* Gabriel, 1939: 106, pl. 1 fig. 5. Dairy Creek, near Silver Band Falls, Grampians, Vic. Holotype: F598; paratype: F30584(1).

\**pawpela*, *Glacidorbis* Smith, 1979: 121, figs. 1-6. Elizabeth Bay, Great Lake, Tas., 30 m. Paratypes: F30145(7 preserved); F30146(1 shell on SEM mount).

## Trunatellidae

\**exposita*, *Coxiellada* Iredale, 1943: 211. Cranbrook, W.A. Paralectotypes: F18128(15) (designated Macpherson, 1957).

*glabra*, *Coxiella* Macpherson, 1957: 199, fig. 1. Morawa, W.A. Paratypes: F18106(6).

*glauerti*, *Coxiella* Macpherson, 1957: 194, fig. 2. Israelite Bay, W.A. Paratypes: F18110(4).

*micra*, *Truncatella* Tenison-Woods, 1878: 62. Brighton, Vic. Holotype: F534(fragments only).

*minima*, *Coxiella* Macpherson, 1954: 56, figs. 1a, b. Middle Is. Recherche Archipelago, W.A. Holotype: F13835; paratypes: F12636(9 preserved).

*molesta*, *Coxiella* Iredale, 1943: 211. Port Phillip, Vic. Paralectotypes: F18129(9) (designated Macpherson, 1957).

## Bulimidae

*victoriae*, *Bythina* Tenison-Woods, 1878: 64. Lake Connewarre, Geelong, Vic. Syntypes: F658(8).

## Rissoidae

*apiculata*, *Rissoa verconis* Gatliff & Gabriel, 1913: 68, pl. 8 fig. 3. Western Port, Vic., 6-8 fm. Holotype: F577; paratype: F30635(1).

*archensis*, *Rissoa* May, 1913: 47, pl. 2 fig. 5. Arch Is., d'Entrecasteaux Channel, Tas. Paratype: F30460(1).

*atrella*, *Eatoniella* (*Eatoniella*) Ponder & Yoo, 1978: 613, figs. 3e, f, 9n-p. N. side of Black Head, Nadgee, N.S.W. Paratypes: F3004(3).

*aurantiocinctus*, *Amphithalamus* May, 1916: 96, pl. 6 fig. 33. Off Thoun Bay, Tas., 40 fm. Paratype: F3046(1).

*columnaria*, *Rissoa* Hedley & May, 1908: 117, pl. 22 fig. 9. 7mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F30593(1).

*consobrina*, *Rissopsis* Tate & May, 1900: 101. Frederick Henry Bay, Tas. Paratype: F30463(1).

*depressa*, *Eatoniella* (*Eatoneilla*) Ponder & Yoo, 1978: 618, figs. 1l, m, 6a-c. Moonlight Beach, W. of Cape Otway, Vic. Paratypes: F30005(3).

*difficilis*, *Dardanula* Gabriel, 1956: 7, fig. 5. Near Elephant Shoal Reef, 4 mi. S.E. of King Is., Bass Strait, 7.5 fm. Holotype: F16129; paratypes: F16130(4).

*erratica*, *Amphithalamus* May, 1913: 48, pl. 2 fig. 7. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F30562(3).

*fausta*, *Rissoina* Hedley & May, 1908: 117, pl. 2 fig. 10. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F30457(1).

*flindersii*, *Rissoina* Tenison-Woods, 1877: 154. North west coast, Tas. Syntypes: F30029(3).

*glomerosa*, *Onoba* Hedley, 1907: 495, pl. 17 fig. 23. Masthead Reef, Capricorn Group, Qld. Paratypes: F31380(4).

*guesti*, *Estea* Powell, 1933: 200, pl. 35 fig. 5. Waitangi, Chatham Is., New Zealand. Paratypes: F30418(3).

*hedleyi*, *Rissoina* Tate, 1899: 241, pl. 7 fig. 8. Fowlers Bay, S.A., and Port Western, Vic. (Holotype (SAM) and NMV paratype: Fowlers Bay). Paratype: F30465(1).

*hoggartae*, *Estea* Gabriel, 1956: 6, fig. 4. Near Elephant Shoal Reef, 4 mi. S.E. of King is., Bass Strait, 7.5 fm. Holotype: F16127; paratypes: F16128(3).

*iravadioides*, *Rissoa* Gatliff & Gabriel, 1913: 67, pl. 8 fig. 1. Off Wilson's Promontory, Vic. Holotype: F523; paratypes: F27077(3).

*janjucensis*, *Rissoa* Gatliff & Gabriel, 1913: 67, pl. 8 fig. 2. Jan Juc, Puebla coast, Vic. (NMV paratype: Westernport, Vic., 8-10 fm). Holotype: F570; paratype: F571(1).



*kershawi*, *Rissoina* Tenison-Woods, 1878: 57. Long Bay, Tas. Lectotype: F30931; paralectotypes: F654(3) (designated Ponder & Yoo, 1976).

*lirata*, *Rissoina* Angas, 1880: 417, pl. 40, fig. 11. Holdfast & Aldinga Bays, S.A. (NMV syntypes: S.A.). Syntypes: F31657(3).

*lockyeri*, *Rissoa* Hedley, 1911: 103, pl. 18 fig. 22. 40 mi. S. of Cape Wiles, S.A. 100 fm. Paratypes: F460-2(3).

*microcosta*, *Estea* May, 1920: 61, pl. 15 fig. 12. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F30417(1).

*multilirata*, *Rissoa* May, 1916: 93, pl. 5 fig. 27. Frederick Henry Bay, Tas. Paratype: F30464(1).

*perpolita*, *Estea* May, 1920: 61, pl. 15 fig. 13. Off Thouin Bay, Tas., 50 fm. Paratype: F30416(1).

*pertranslucida*, *Rissoa* May, 1913: 48, pl. 2 fig. 8. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F30459(2).

*pupoides*, *Rissoa* May, 1916: 93, pl. 5 fig. 25. Off Port Arthur, Tas., 50-70 fm. Paratype: F30455(1).

*pyramidatus*, *Scrobs* Hedley, 1903: 354, fig. 77. Off Wata Mooli, N.S.W., 54-59 fm. (NMV paratypes: Off Cape Three Points, N.S.W., 41-50 fm). Paratypes: F30413(5).

*rekohuana*, *Estea* Powell, 1933: 199, pl. 35 fig. 9. Waitangi, Chatham Is. Paratypes: F30414(4).

*rhyllensis*, *Rissoina* Gatliff & Gabriel, 1908: 367, pl. 21 fig. 8. Between Phillip & French Islands, Westernport, Vic. Holotype: F720.

*royana*, *Stiva* Iredale, 1924: 245. Twofold Bay, N.S.W. 10-35 fm. Paratypes: F30645(2).

*schoutanica*, *Rissoa* May, 1913: 47, pl. 2 fig. 2. 3 mi. E. of Schouten Is., Tas., 40 fm. Paratype: F30426(1).

*semicinctus*, *Epigrus* May, 1916: 96, pl. 7 fig. 36. Off Thouin Bay, Tas., 40-50 fm. Paratypes: F30378(2).

*suprasculpta*, *Rissoina* Tenison-Woods, 1878: 57. Long Bay, Tas. Holotype: F638.

*thouinensis*, *Alvania* May, 1916: 94, pl. 6 fig. 29. Off Thouin Bay, Tas., 40 fm. Paratype: F30379(1).

*triangularis*, *Amphithalmus* May, 1916: 95, pl. 6 fig. 32. Off Thouin Bay, Tas., 40 fm. Paratypes: F30381(2).

*verconiana*, *Rissoa* Hedley, 1911: 104, pl. 19 fig. 23. 40 mi. South of Cape Wiles, S.A., 100 fm. Paratypes: F544-6(3).

*victoriae*, *Eatoniella* (*Eatoniella*) Ponder & Yoo, 1978: 633, figs. 3i, j, 10d-g. Between Eagle and Crawfish Rock, NW Arm, Westernport, Vic., 4-6 m. Paratypes: F30006(3).

*wilsonensis*, *Rissoa* Gatliff & Gabriel, 1913: 68, pl. 8 fig. 4. Off Wilsons Promontory, Vic. Holotype: F719; paratype: F30425(1).

### Cingulopsidae

(designated by Ponder and Yoo, 1980)

*hutchingsae*, *Eatonina* (*Eatonina*) Ponder & Yoo, 1980: 16, figs. 2f, 10a-f. S. side of Caloundra Head, Coloundra, Qld. Paratype: F30044(1).

*rubrilabiata*, *Eatonina* (*Eatonina*) Ponder & Yoo, 1980: 23, figs. 2g, 6e-g. Batehaven, Batemans Bay, N.S.W. Paratypes: F30045(3).

*sanguinolenta*, *Eatonina* (*Eatonina*) Ponder & Yoo, 1980: 24, figs. 2d, 9g-j. Point Sinclair, S.A., 0-1 m. Paratypes: F30046(2).

### Rissoellidae

*imperforata*, *Rissoella* (*Zelaxitas*) Ponder & Yoo, 1977:

151, fig. Pirates Bay, Eaglehawk Neck, S. Tas. Paratypes: F30003(2).

*wilfredi*, *Jeffreysia* Gatliff & Gabriel, 1911: 188, pl. 46 fig. 3. Ocean Beach, near Point Nepean, Vic. Holotype: F715; paratype: F27076(1).

### Turritellidae

*ahiparana*, *Turritella* (*Zeacolpus*) Powell, 1928: 297, fig. 4. Off Ahipara, New Zealand, 23 fm. Paratypes: F30592(5).

*bundilla*, *Colpospira* (*Colpospira*) Garrard, 1972: 278, pl. 26 fig. 17. N.E. of Cape Moreton, S. Qld, 114-123 m. Paratypes: F30387(3).

*circumligata*, *Turritella* Verco, 1910: 123, pl. 30 figs. 3, 4. Off Beachport, S.A., 110 fm. (NMV paratype from same locality, 150 fm). Paratype: F30492(1).

*kimberi*, *Turritella* Verco, 1908b: 342, pl. 15 figs. 14, 15. Backstairs Passage, S.A., 20 fm. (NMV specimen: Gulf St Vincent, S.A., 20 fm). Probable paratype: F1052(1).

*medioangulata*, *Turritella atkinsoni* Verco, 1910: 125, pl. 30 figs. 8, 9. 35 mi. S.W. of Neptune Is., S.A. 104 fm. (NMV paratype: off Beachport, S.A., 200 fm.). Paratype: F30493(1).

*mediolevis*, *Turritella* Verco, 1910: 121, pl. 30 figs. 5, 6. Off Cape Borda, S.A., 62 fm. Paratypes: F20494(2).

*microscopica*, *Turritella* May, 1911: 395, pl. 15 fig. 23. 3 mi. E. of Schouten Is., Tas., 40 fm. Paratypes: F1053(1), F30495(1).

*translucida*, *Colpospira* (*Colpospira*) Garrard, 1972: 288, pl. 26 fig. 16. South-west of Eucla, W.A., 79-140 m. Paratype: F30561(1).

### Vermetidae

*flava*, *Vermicularia* Verco, 1907: 214, fig. 1. Off Cape Jaffa, S.A., 130 fm. Paratype: F5082(1), F30583(1).

### Thiaridae

*cingulifera*, *Melania* Sykes, 1904: 14, fig. 2. Espiritu Santo, New Hebrides. Syntype: F551(1).

*morti*, *Melania* Sykes, 1904: 13, fig. 1. Espiritu Santo, New Hebrides. Syntype: F456(1).

*turbinata*, *Larina* (?) Gatliff & Gabriel, 1909: 35, pl. 13. Between Phillip and French Islands, Westernport, Vic., 5 fm. Holotype: F711 (shell, radula and approx. 100 embryos).

### Diastomidae

*vulnerata*, *Obtortio* Hedley, 1909: 439, pl. 40 fig. 52. Off the Hope Islands, north Qld, 5-10 fm. Paratypes: F453-4(2).

### Cerithiidae

*semilaevis*, *Bittium* Tenison-Woods, 1878: 58. N.E. Tas. Holotype: F583.

### Cerithiopsidae

*dannevigi*, *Cerithiopsis* Hedley, 1911: 109, pl. 19 figs. 26-7. 40 miles S. of Cape Wiles, S.A., 100 fm. Paratypes: F650(2).

## Triphoridae

- armillata*, *Triphora* Verco, 1909: 283, pl. 22 fig. 5. Gulf St. Vincent, S.A., 20 fm. Paratypes: F30634(4).  
*cana*, *Triphora* Verco, 1909: 289, pl. 23 figs. 2-4. Gulf St. Vincent, S.A. Paratypes: F30532(2), F30965(2).  
*dexia*, *Triphora* Verco, 1909: 278, pl. 22 figs. 6-10. Off Cape Borda, S.A., 55 fm. Paratypes: F30498(2), F30600(2).  
*latilirata*, *Triphora* Verco, 1909: 283, pl. 26 fig. 1. Gulf St. Vincent, S.A. Paratypes: F30528(1), F30734(1).  
*spica*, *Triphora* Verco, 1909: 281, pl. 23 fig. 1. Off Beachport, S.A., 40 fm. (NMV paratypes: off Cape Borda, S.A., 55 fm). Paratypes: F30527(1), F30636(1).  
*spina*, *Triphora* Verco, 1909: 280, pl. 22 figs. 2-4. Off Beachport S.A., 110 fm. (NMV paratype F30531: off Cape Jaffa, S.A., 90 fm). Paratypes: F30530(2), F30531(1).  
*subula*, *Triphora* Verco, 1909: 279, pl. 25 figs. 5, 6. Gulf St. Vincent, S.A. Paratype: F30529(1).  
*tribulationis*, *Triphora* Hedley, 1909: 440, pl. 40 figs. 53-4. Off the Hope Islands, north Qld. Syntype: F31381(1).

## Scalidae

- nepeanensis*, *Scala* Gatliff, 1906: 1, pl. 1 fig. 5. Ocean Beach, Point Nepean, Vic. Holotype: F607.  
*translucida*, *Scala* Gatliff, 1906: 2, pl. 1 figs. 3-4. Portsea, Port Phillip, Vic. Holotype: F509.

## Melanellidae

- broadbentae*, *Strombiformis* Cotton & Godfrey, 1932: 40, pl. 1 fig. 19. N.W. of Cape Borda, S.A., 55 fm. Paratype: F30458(1).  
*calamaris*, *Pulicicochlea* (*Pulicicochlea*) Ponder & Gooding, 1978: 164, figs. Off east end of Waikiki Beach, S. coast of Oahu, Hawaii, 21°15.7'N., 157°50.5'W., 46 m. (NMV paratypes: off west end of Waikiki Beach, 9 m). Paratypes: F30375(2).  
*columnaria*, *Eulima* May, 1916: 89, pl. 3 figs. 16, 16a. Off Port Arthur, Tas., 50-70 fm. Paratype: F30406(1).  
*cunaeformis*, *Eulima* May, 1916: 90, pl. 3 figs. 18, 18a. Off Maria Is., Tas., 50 fm. (NMV paratype: Tasmania). Possible paratype: F30407(1).  
*faba*, *Pulicicochlea* (*Pseudoretusa*) Ponder & Gooding, 1978: 171, fig. S. of Kapapa Is., Kaneohe Bay, S.E. side of Oahu Is., Hawaii, 21°28'44"N., 157°48'03"W., 1 m. Paratypes: F30374(2).  
*fusca*, *Pulicicochlea* (*Pulicicochlea*) Ponder & Gooding, 1978: 169, figs. OFDF Yacht Club, Rabaul Harbour, New Britain, 12°12.5'S., 152°11.1'E., 1-2 m. Paratype: F30373(1).  
*gradata*, *Eulima* Cotton & Godfrey, 1932: 36, pl. 1 fig. 17. Ellensbrook, W.A. Paratype: F30405(1).  
*joshuana*, *Leiostraca* Gatliff & Gabriel, 1910: 83, pl. 13 fig. 4. San Remo, Vic. Holotype: F717; paratypes: F30637(2).  
*kilcundae*, *Leiostraca* Gatliff & Gabriel, 1914: 94, pl. 14 figs. 2, 3. Kilcunda, Vic. Holotype: F716; paratypes: F1453(2), F30743(2).  
*murrayae*, *Eulima* Cotton & Godfrey, 1932: 36, pl. 1 fig. 12. St. Vincent's Gulf, S.A., 10 fm. Paratype: F30415(1).

- orthopleura*, *Eulima* Tate, 1898: 80, pl. 4 fig. 1. Holdfast and Aldinga Bays, S.A. (Holotype (SAM): Holdfast Bay; NMV paratype: S.A.). Paratype: F30409(1).  
*schoutanica*, *Eulima* May, 1916: 89, pl. 3 fig. 15. Off Schouten Is., Tas., 40 fm. (NMV specimen: E. coast Tasmania, 50 fm). Possible paratype: F30408(1).  
*styliformis*, *Leiostraca* Gatliff & Gabriel, 1914: 95, pl. 4 figs. 4, 5. Off Wilson's Promontory, Vic. Holotype: F718; paratypes: F1451(3), F28571(5).  
*triggi*, *Eulima* Cotton & Godfrey, 1932: 36, pl. 1 fig. 15. Cape Jaffa, S.A., 90 fm. Paratype: F30403(1).  
*victoriae*, *Eulima* Gatliff & Gabriel, 1914: 94, pl. 14 fig. 1. Off Wilson's Promontory, Vic. Holotype: F714; paratypes: F1459(1), F28570(1).

## Stiliferidae

- immaculata*, *Stylifer* Pritchard & Gatliff, 1900: 137, pl. 21 fig. 2. Shoreham, Westernport, Vic. Holotype: F553.

## Trichotropidae

- gabrieli*, *Trichotropis* Pritchard & Gatliff, 1899: 183, pl. 20 fig. 7. Swan Bay Channel, off Phillip Island, Western Port, Vic., 4 fm. Holotype: F498.

## Capulidae

- sycophanta*, *Capulus* Garrard, 1961: 12, pl. 2 figs. 1, 1a. Keppel Bay, Qld, 25 fm. Paratypes: F23093(3).

## Eratoidea

- denticulata*, *Erato* Pritchard & Gatliff, 1900: 133, pl. 20 fig. 5. San Remo, Western Port, Vic. Holotype: F524.

## Cypraeidae

- bakeri*, *Cypraea venusta* Gatliff & Gabriel, 1916: 147, figs. 1, 2. Western Australia. Holotype: F616.  
*gabrieli*, *Cypraea miliaris* Gatliff, 1916: 148, fig. 3. Northern Territory. Holotype: F445.  
*mauiensis*, *Cypraea* Burgess, 1967: 6, pl. 2. Reef at Olowalu, Maui, Hawaii. Paratypes: F26887(2).  
*raysummersi*, *Purpuradusta* Schilder, 1960: 190, pl. 15 fig. 5. Siassi Is., Sulu Sea, Philippines. Paratype: F21565.  
*trenberthae*, *Cypraea* (*Notocypraea*) Trenberth, 1961: 1, fig. Tumby Bay, S.A. Paratype: F31257(1).  
*wilkinsi*, *Cypraea* (*Notocypraea*) Griffiths, 1959: 97, pl., fig. Flinders, south beach, Vic. (NMV paratypes: San Remo, Vic.). Holotype: F19903; paratypes: F19979(2).

## Amphiperatidae

- macoyi*, *Birostra* Tenison-Woods, 1878: 55. Waterhouse, N.E. Tasmania. Holotype: F448.

## Naticidae

- ayresi*, *Polinices* (*Conuber*) Gabriel, 1962: 185, pl. 1 figs. 8, 9. 18 mi. E. of Lakes Entrance, Vic., 5-15 fm. Holotype: F20828; paratype: F20829(1).  
*controversa*, *Natica* Pritchard & Gatliff, 1913: 63, pl. 7 figs. 1-3. South coast, Tasmania. Holotype: F695; paratype: F701.



*putealis*, *Polinices* Garrard, 1961: 18, pl. 2 fig. 6. E. of Botany Bay, N.S.W., 50-58 fm. Paratypes: F23114(2).  
*shorehami*, *Natica* Pritchard & Gatliff, 1900: 132, pl. 20 fig. 4. Several localities given, holotype from Shoreham, Westernport, Vic. (NMV paratypes: Westernport and Point Nepean, Vic.). Holotype: F542; paratypes: F19138(1), F27098(1).  
*sticta*, *Natica* Verco, 1909: 333, pl. 29 figs. 4-6. Cape Jaffa, S.A., 130 fm. (NMV paratypes: off Beachport, S.A., 100 fm). Paratypes: F30436(3).

### Cassidae

*nan*, *Cassis* Tenison-Woods, 1879: 108. Moreton Is., Qld. (specimen label, Cape Moreton, Qld). Holotype: F666.  
*stadialis*, *Cassidea* Hedley, 1914: 72. Between Green Cape, N.S.W. and Gabo Is., Vic., 50-100 fm. Paratypes: F613-5(3).  
*tumida*, *Cassis* Petterd, 1886: 321. Near River Leven, Tas. Holotype: F26841.

### Cymatiidae

*fantomei*, *Colubraria* Garrard, 1961: 25, pl. 1 fig. 5. E. of Caloundra, Qld, 40 fm. Paratype: F23132(1).  
*garrardi*, *Austrotriton* Beu, 1970: 88, pl. 6 figs. 1-6. Off Ulladulla, N.S.W., 50 fm. (NMV paratype: off Botany Bay, N.S.W., 70 fm.). Paratype: F27375(1).

### Bursidae

*latitudo*, *Bursa* Garrard, 1961: 15, pl. 2 fig. 2. Off Moreton Is., Qld, 125 fm. Holotype: F21111.

### Muricidae

*baileyana*, *Purpura* Tenison-Woods, 1881: 80. No type locality given, specimen label: Schnapper Pt., Vic. Holotype: F699.  
*bivariata*, *Typhis* Verco, 1909: 272, pl. 21 figs. 1, 2. 35 mi. S.W. of Neptune Is., S.A., 104 fm. Paratypes: F13931(1), F30601(1).  
*espinosus*, *Murex* (*Murex*) Macpherson, 1959: 51, pl. figs. 1, 1a. Tweed Head, N.S.W., 30 fm. Holotype: F17960; paratypes: F17960a(2), F18865(radula).  
*elongata*, *Linixaxis* Laceron, 1955: 73, figs. 3-6. Off Crookhaven, N.S.W., 30-35 fm. Paratype: F20869(1).  
*fayae*, *Pterotyphis* (*Tripterotyphis*) Keen & Campbell, 1964: 54, pl. 2 figs. 39, 40, 43, 44. Barra de Navidad, Jalisco, Mexico. Paratype: F25110(1).  
*haysae*, *Thais floridana* Clench, 1927: 6, pl. 1 fig. 1. Grand Bayou, Mississippi Delta, Louisiana, U.S.A. Paratypes: F17569(2).  
*kurranulla*, *Poirieria* Garrard, 1961: 27, pl. 2 fig. 4. Cape Moreton, Qld. Holotype: F21118.  
*molorthus*, *Trophon* Hedley & May, 1908: 122, pl. 24 fig. 23. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F20596(1).  
*nautica*, *Agnewia* Thornley, 1952: 43, fig. 2. Port Stephens, N.S.W. Paratype: F30640(1).  
*segmentatus*, *Trophon* Verco, 1909: 335, pl. 24 fig. 3. Off Cape Jaffa, S.A., 90 fm. Paratypes: F13930(2), F30582(2).  
*suzukii*, *Columbarium* Habe & Kosuge, 1972: 112, fig. 1. South China Sea. Paratype: F27936(1).

*triformis*, *Murex* Reeve, 1845: sp. 53. New Holland. Holotype: F30968.  
*vector*, *Dicathais* Thornley, 1952: 43, fig. 1. Hawksnest Beach, Port Stephens, N.S.W. Paratype: F30639(1).

### Magilidae

*elegans*, *Latiaxis* Angas, 1878: 74, pl. 5 figs. 1, 2. Holotype: F696.  
*wilsoni*, *Coralliophila* Pritchard & Gatliff, 1897: 140. Port Phillip Heads, Vic. Holotype: F628.

### Pyrenidae

*aureola*, *Pyrene* Howard, 1963: 2, pl. 1 figs. 1-3, pl. 2. Norse Beach, Punta Penasco, Sonora, Mexico, 31°20'N., 113°38'W. Paratypes: F23527(2).  
*calva*, *Pyrene* Verco, 1910: 143, pl. 29 figs. 2, 3. N.W. of Cape Borda, S.A., 55 fm. (NMV paratype: St. Vincents Gulf, S.A.). Paratype: F30453(1).  
*fayae*, *Anachis* (*Costoanachis*) Keen, 1971: 579. Guaymas, Sonora, Mexico. Paratypes: F27466(2).  
*franklinensis*, *Columbella* Gatliff & Gabriel, 1910: 83, pl. 18 fig. 3. Point Franklin, Portsea, Port Phillip, Vic. Holotype: F579; paratypes: F30389(2).  
*gemmulifera*, *Pyrene* Hedley, 1907: 510, pl. 19 fig. 44. Masthead Reef, Capricorn Group, Qld, 17-20 fm. Paratypes: F31379(2).  
*jaffaensis*, *Pyrene* Verco, 1910: 143, pl. 29 figs. 5-6. Off Cape Jaffa, S.A., 130 fm. Paratype: F30587(1).  
*remoensis*, *Columbella* Gatliff & Gabriel, 1910: 82, pl. 18 figs. 1, 2. San Remo, Westernport, Vic. Holotype: F611.

### Buccinidae

*albolirata*, *Cominella* Tenison-Woods, 1879: 33. Flinders Is., Tas. Paratypes: F590-1(2).  
*novaehollandiae*, *Fusus* Reeve, 1848: sp. 70. New Holland. Syntypes: F660-1(2).  
*pastinaca*, *Fusus* Reeve, 1848: sp. 64. Australia. Holotype: F684.  
*petterdi*, *Tritonidea* Brazier, 1872: 22. N.E. coast of Tasmania. Holotype: F649.  
*waitangiensis*, *Buccinulum* Powell, 1933: 205, pl. 36 figs. 12, 13. Waitangi Beach, Chatham Is. Paratype: F30384(4).

### Galeodidae

*griggiana*, *Pugilina* Macpherson, 1959: 52, figs. 2a-b. 10 miles upstream from mouth of the Port Keats River, N.T. Holotype: F17571; paratypes: F17571a(6).  
*johnstonei*, *Melongena corona* Clench & Turner, 1957: 178, pl. 96, pl. 105. Little Lagoon, Gulf Shores, Alabama, U.S.A. Paratypes: F30429(3).

### Nassariidae

*benthalis*, *Reticunassa compacta* Gabriel, 1962: 189, pl. fig. 1. Off Cape Everard, Vic., 65 fm. Holotype: F20838; paratypes: F20839(7).  
*mobilis*, *Arcularia* Hedley & May, 1908: 121, pl. 23 fig. 16. 7 miles E. of Cape Pillar, Tas., 100 fm. Paratypes: F30599(1 + fragment).



## Fascioliariidae

*aethiops*, *Peristernia* Macpherson, 1959: 53, fig. 3. Portland Roads, N. Qld. Holotype: F18466.  
*bakeri*, *Fasciolaria australasia* Gatliff & Gabriel, 1912: 47, figs. 1, 2. Anderson's Inlet, Vic. Holotype: F617; paratypes: F480(1), F622(1).

## Olividae

*beachportensis*, *Ancilla* Verco, 1909: 339, pl. 14 fig. 9. Off Beachport, S.A., 110 fm. Paratypes: F25178-9(2).  
*edithae*, *Ancilla* Pritchard & Gatliff, 1899: 181, pl. 20 fig. 5. Rosebud, Port Phillip, Vic. Holotype: F609.  
*rosea*, *Alocospira* Macpherson, 1959: 53, fig. 4. Green Is., Cairns, Qld. Holotype: F18467; paratypes: F18468(3), F16094(2).  
*solidula*, *Olivella* Verco, 1909: 339, pl. 25 figs. 7, 8. Off Cape Borda, S.A., 55 fm. Paratype: F25180(1).

## Mitridae

*arnoldi*, *Mitra* Verco, 1909: 336, pl. 24 fig. 6. Petrel Bay, St. Francis Is., S.A. Paratypes: F5187(2), F30730(2).  
*bassiana*, *Austromitra bucklandi* Gabriel, 1962: 192, fig. 7. 18 mi. E. of Lakes Entrance, Vic., 15 fm. Holotype: F20729; paratypes: F20730(2), F30597(5).  
*bellapicta*, *Mitra* Verco, 1909: 337, pl. 25 fig. 1. Off Beachport, S.A., 40 fm. Paratypes: F5186(1), F30731(1).  
*bucklandi*, *Austromitra* Gabriel, 1962: 192, figs. 6, 7. Twofold Bay, N.S.W., 10 fm. Holotype: F20727; paratypes: F20728(2).  
*hansenae*, *Vexillum* (*Pusia*) Cernohorsky, 1973: 138, figs. 13-16. Sarge Bay, Augusta, W.A. (NMV paratype: Cape Riche, Augusta, W.A.). Paratype: F28077(1).  
*marrowi*, *Vexillum* (*Pusia*) Cernohorsky, 1973: 140, figs. 19-23. Yanchep Reef, approx. 30 mi (48 km) N. of Perth, W.A. (NMV paratype: Lady Adeline Bay, Rottnest Is., W.A.). Paratype: F28076(1).  
*pumilio*, *Vexillum* May, 1916: 85, pl. 1 fig. 5. Off Thoun Bay, Tas., 40 fm. Paratypes: F30491(2).  
*retrocurvata*, *Mitra* Verco, 1909: 338, pl. 24 figs. 4-5. Off Beachport, S.A., 110 fm. Paratypes: F5188(2), F30732(1).

## Vasidae

*kurtzi*, *Tudicula* (*Tudicula*) Macpherson, 1964: 209. Shoal Bay, Darwin, N.T. Holotype: F23320.  
*rasilostoma*, *Tudicula* Abbott, 1959: 29, pl. 4 fig. 2, pl. 10 A-C. Off Tweed Heads, N.S.W. (NMV paratypes: Tin Can Bay, Qld; off Brisbane, Qld). Holotype: F18189a; paratypes: F18189b(1), F19866(1), F18761(2).

## Harpidae

*cognata*, *Cithara* Pritchard & Gatliff, 1899: 103, pl. 8 fig. 5. Off Phillip Is., Westernport, Vic., 5 fm. Holotype: F606; paratypes: F19141(2).

## Volutidae

*cracenta*, *Cymbiolacca* McMichael, 1963: 33. 15 mi. S.E. of Cape Green, South of Townsville, Qld, 17-20 fm. Paratype: F23822(1).

*diamantina*, *Amoria* (*Amoria*) Wilson, 1972: 340, pl. 31 figs. 1-4. 27°40'S., 113°20'E., W. of Bluff Pt. Geraldton, W.A., 130 m. (NMV paratype: NW. of Rottnest Is., W.A., 156 m). Paratype: F30043(1).

*gardneri*, *Notovoluta* Darragh, 1983: 84, figs. 1, 3, 6, 8. Northeast of Lady Musgrave Is., Capricorn Channel, central Qld, 200-220 m. Holotype: F31710; paratype: F31711(1).

*gatliffi*, *Voluta* (*Amoria*) Sowerby, 1910: 611, fig. Port Keats, N.T. (note: 2 'cotypes' cited by Smith (1968) are not regarded as types by the present authors).

*hamillea*, *Voluta* Crosse, 1869: 278. Japan. Holotype: F26773 (note: Crosse, 1869, gave type locality as Solomon Is., corrected by Crosse, 1870).

*kellneri*, *Aulica* Iredale, 1957: 91. Eastern Arnhem Land, N. Australia. (NMV paratypes: Blythe River Gulf, N.T.). Paratypes: F18192(2).

*leucostoma*, *Livonia mamilla* Maybloom, 1951: 281, pl. 26 fig. 3. Off continental shelf of N.S.W., 70-80 fm. (specimen label: around Gabo Is., Vic., 80 fm). Holotype: F19280.

*lutosa*, *Volutocorbis* Koch, 1948: 5, pl. 2, fig. Off Port Nolloth, South Africa, 40-60 fm. Paratypes: F30497(2).

*macgillivrayi*, *Voluta* Cox, 1873: 568. Woodlark Is., New Guinea. Paratype: F5067(1).

*necopinata*, *Amoria* Darragh, 1983: 85, figs. 2, 4, 5, 7. Capricorn Channel, central Qld, 134 m. Holotype: F31750; paratype: F31751(1).

*nielsenii*, *Cymbiolacca complexa* McMichael, 1959: 377, pl. 44 fig. 3. 30 mi off Burnett Heads, Hervey Bay, Qld, 10 fm. (NMV paratype: off Bundaberg, Qld). Paratype: F18259 (preserved specimen and radula slide).

*parabola*, *Nannamoria* Garrard, 1960: 3, pl. 1 figs. 1a-b. Off Moreton Is., Qld, 125 fm. Paratype: F21107(1).

*peristicta*, *Cymbiolacca* McMichael, 1963: 33, pl. 6. Big Sandy Cay, Swains Reef, 2 fm. Paratypes: F22757(2).

*provocationis*, *Pseudocymbiola* McMichael 1961: 55, pl. 4 figs. 9, 10. Off Port Kembla, N.S.W. Paratype: F23821(1).

*randalli*, *Cymbiola* Stokes, 1961: 3, fig. 3 mi. from Undine Reef, N. Qld. Holotype: F22758.

*roadnightae*, *Voluta* McCoy, 1881: 88, pl. 7 figs. 1, 2. Lakes Entrance, Vic. Holotype: F662.

*spenceriana*, *Voluta* (*Amoria*) Gatliff 1908: 84, fig. N. Queensland. Holotype: F455.

*thatcheri*, *Voluta* McCoy, 1868: 54, pl. 2 fig. 1. Holotype: F22764.

## Cancellariidae

*maccoyi*, *Cancellaria* Pritchard & Gatliff, 1899: 181, pl. 20 fig. 6. Near Shoreham, Westernport, Vic. Holotype: F490; paratype: F19140(1).

## Marginellidae

*alternans*, *Marginella* Pritchard & Gatliff 1899: 180, pl. 20 fig. 3. Shoreham Beach, Westernport Bay, Vic. Holotype: F535.

*altilabra*, *Marginella* May, 1911: 383, pl. 13 fig. 3. 10 mi E. of Schouten Is., Tas., 80 fm. (NMV paratypes: 7 mi. E. of Cape Pillar, Tas., 100 fm) Paratypes: F30434(3).

*amydroxona*, *Marginella* (*Volvaria*) Melville, 1906: 76, pl. 8 fig. 18. Maskat, Gulf of Oman, Persian Gulf, 15 fm. Paratypes: F1450(2).

*auriculata*, *Marginella* May, 1916: 85, pl. 1 fig. 6. Off Thouin Bay, Tas., 40 fm. Paratypes: F30435(2).

*caducocincta*, *Marginella* May, 1916: 88, pl. 2 fig. 11. Off Thouin Bay, Tas., 40 fm. Paratypes: F30440(6).

*columnaria*, *Marginella* Hedley & May, 1908: 120, pl. 23 fig. 19. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F30598(1).

*connectans*, *Marginella* May, 1911: 387, pl. 14 fig. 11. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F30431(1).

*difficilis*, *Volvarinella* Gabriel, 1962: 196, fig. 2. Off Cape Everard, Vic., 65 fm. Holotype: F20834; paratype: F20835(1).

*everardensis*, *Longinella* Gabriel, 1962: 195, pl. fig. 5. Off Cape Everard, Vic., 65 m. Holotype: F20830; paratype: F20831(1).

*flindersi*, *Marginella* Pritchard & Gatliff, 1899: 180, pl. 20 fig. 4. Shoreham Beach, Westernport Bay, Vic. Holotype: F612.

*freycineti*, *Maringella* May, 1916: 86, pl. 2 fig. 9. Off Thouin Bay, Freycinet Peninsula, Tas., 40 fm. Paratypes: F20430(2).

*gabrielii*, *Marginella* May, 1911: 386, pl. 13 fig. 9. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F20442(4).

*gatliffi*, *Marginella* May, 1911: 385, pl. 13 fig. 8. 3 mi. E. of Schouten Is., Tas., 40 fm. Paratypes: F30441(2).

*gracilis*, *Marginella* May, 1911: 383, pl. 13 fig. 4. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F30437(2).

*halli*, *Marginella* Pritchard & Gatliff, 1899: 179, pl. 20 fig. 1. Shoreham Beach, Western Port Bay, Vic. Holotype: F559.

*hedleyi*, *Maringella* May, 1911: 381, pl. 13 fig. 1. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F24930(2), F30433(2).

*inaequidens*, *Marginella* May, 1913: 44, pl. 2 fig. 1. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F31686(1 broken).

*malinoides*, *Triginella* Gabriel, 1962: 195, pl. figs. 3-4. Off Cape Everard, Vic., 65 fm. Holotype: F20832. Paratype: F20833(1).

*microscopica*, *Marginella* May, 1911: 389, pl. 14 fig. 13. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratype: F20439(1).

*problematica*, *Marginella* Gatliff & Gabriel, 1916: 104, pl. 7 fig. 1. Western Port, Vic., 8-10 fm. Holotype: F727; paratypes: F5184(2).

*pygmaeoides*, *Marginella* (*Glabella*) Singleton, 1937: 393, pl. 23 fig. 2. Port Phillip, Vic. Holotype: F575.

*schoutanica*, *Marginella* May, 1913: 45, pl. 2 fig. 2. 3 mi. E. of Schouten Is., Tas., 40 fm. Paratypes: F30432(5).

*shorehami*, *Marginella* Pritchard & Gatliff, 1899: 179, pl. 20 fig. 2. Shoreham Beach, Western Port Bay, Vic. Holotype: F548.

*vercoi*, *Marginella* May, 1911: 385, pl. 13 fig. 7. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F20438(3).

*victoriae*, *Marginella* Gatliff & Gabriel, 1908: 365, pl. 21 fig. 5. Portsea, Port Phillip and Western Port, Vic. (Holotype from Portsea). Holotype: F593.

*whani*, *Marginella* Pritchard & Gatliff, 1900: 137, pl. 21 figs. 5, 6. Port Fairy, Vic. Holotype: F517.

*youngi*, *Marginella* (*Glabella*) Kilburn, 1977: 196, figs. 25, 26. Off Chinde, Central Mozambique. Paratype: F31273(1).

## Turridae

*achatina*, *Drillia* Verco, 1909: 298, pl. 26 fig. 2. 7 mi. S.W. of Newland Head, S.A. (NMV paratypes: off Beachport, S.A., 40 fm). Paratypes: F30398-9(2).

*acostata*, *Drillia woodsi* Verco, 1909: 301. Off Beachport and off Cape Jaffa, S.A. (Holotype (SAM): Beachport, 110 fm. NMV paratype: off Beachport, 200 fm). Paratype: F30412(1).

(*aculeata*, Taranis May, 1916: 83, pl. 1 fig. 1. Off Thouin Bay, Tas., 50 fm. (NMV paratypes: 40 fm). Paratypes: F30560(2).

*agrestis*, *Drillia* Verco, 1909: 299, pl. 27 fig. 7. Off Beachport, S.A., 40 fm. (NMV paratype: St. Vincent's Gulf, S.A.) Paratype: F30419(1).

*aliciae*, *Mangilia* (*Glyphostoma*) Melvill & Standen, 1895: 95, pl. 2 fig. 15. Lifu. Syntype: F30404(1).

*alternata*, *Mangelia* Tenison-Woods, 1879: 39. Circular Head, Tas. Holotype: F589.

*bassiana*, *Mitrihara* Gabriel, 1956: 4, fig. 2. Near Elephant Shoal Reef, 4 mi. S.E. of King Is., Bass Strait, 7.5 fm. Holotype: F16123; paratype: F16124(1).

*bastowi*, *Daphnella* Gatliff & Gabriel, 1908: 365, pl. 21 figs. 1-4. Between Phillip and French Is., off Stony Point, Westernport, Vic. (NMV specimens: Westernport). Holotype: F602; paratype: F30390(1).

*costicapitata*, *Drillia* Verco, 1909: 296, pl. 27 figs. 1, 2. Off Beachport, S.A., 40 fm. Paratypes: F30395(2).

*excavata*, *Daphnella* Gatliff, 1906: 1, pl. 1 figs. 1, 2. Portsea, Port Phillip, Vic. (specimen label: Point Nepean). Holotype: F602.

*fenestrata*, *Daphnella* Verco, 1909: 321, pl. 28 figs. 6, 7. N.W. of Cape Borda, S.A. (NMV paratypes: off Cape Jaffa, S.A., 90 fm). Paratypes: F30391(4).

*flaccida*, *Mangilia* Pritchard & Gatliff, 1899: 102, pl. 8 figs. 3, 4. Flinders Beach, Western Port (specimen labels: San Remo, Vic., Westernport, Vic.) Possible types: F530(1), F30644(2), F30643(3), F19144(1).

*flindersi*, *Mitromorpha* Pritchard & Gatliff, 1899: 104, pl. 8 fig. 6. Flinders Beach, Western Port, Vic. Holotype: F565; paratypes: F19142(3).

*gabrielii*, *Drillia* Pritchard & Gatliff, 1899: 100, pl. 8 fig. 1. Off Phillip Is., Western Port, Vic., 5 fm. Holotype: F556; paratypes: F19143(2).

*gatliffi*, *Mangilia* Verco, 1909: 312, pl. 28 fig. 9. Backstairs Passage, S.A., 17 fm. (NMV paratypes: St. Vincent's Gulf, S.A.). Paratypes: F1449(1), F30428(2).

*haswelli*, *Drillia* Hedley, 1907: 297, pl. 55 fig. 22. Off Narrabeen, N.S.W., 80 fm. Paratype: F31683(2).

*hecatorguia*, *Drillia* Verco, 1907: 215, fig. 3. 35 mi. S.W. of Neptune Is., S.A., 104 fm. Paratypes: F30400-1(2).

*hedleyi*, *Drillia* Verco, 1909: 302, pl. 26 fig. 6. Off Beachport, S.A., 200 fm. (NMV paratypes: F30396 off Beachport, S.A., 100 fm; F30397 S.W. of Neptune Is., S.A.) Paratypes: F30396(1 + fragment), F30397(1).

*howitti*, *Drillia* Pritchard & Gatliff, 1899: 101, pl. 8 fig. 2. Gippsland coast, Vic. Holotype: F573.

*impendens*, *Mangilia* Verco, 1909: 313, pl. 27 fig. 3. St. Vincent's Gulf, S.A. Paratype: F30427(1).

*incerta*, *Mangilia* (?) Pritchard & Gatliff, 1902: 180, pl. 9 fig. 1. Off Rhyll, Phillip Is., Western Port, Vic. Holotype: F576.

*infulata*, *Mangelia* Hedley, 1909: 457, pl. 54 fig. 92. Off Hope Island, north Qld, 5-10 fm. Syntype: F501(1).



*jaffaensis*, *Drillia* Verco, 1909: 298, pl. 26 figs. 7-9. Off Cape Jaffa, S.A. 130 fm. (NMV paratypes: of Neptune Is., S.A., 104 fm). Paratypes: F30745(2), F30746(2).  
*lacteola*, *Drillia* Verco, 1909: 304, pl. 26 fig. 5. Off Cape Jaffa, S.A., 90 fm. Paratypes: F30402(4), F30733(4).  
*leuco*, *Mitromorpha paula* Verco, 1909: 331. Several localities given. Holotype (SAM): N.W. of Cape Borda, S.A., 62 fm. (NMV paratypes: 35 miles SW of Neptune Is., S.A., 104 fm). Paratypes: F30585(2).  
*macphersonae*, *Mitrihara* Gabriel, 1956: 3, fig. 1. Near Elephant Shoal Reef, 4 mi. S.E. of King Is., Bass Strait, 7.5 fm. Holotype: F16121; paratype: F16122(1).  
*microscopica*, *Taranis* May, 1916: 84, pl. 1 fig. 2. Off Thoun Bay, Tas., 40 fm. Paratypes: F30496(2).  
*murrawolga*, *Turricula* Garrard, 1961: 33, pl. 1 fig. 8. E. of Broken Bay, N.S.W., 75 fm. Paratype: F23148(1).  
*paucilirata*, *Mitromorpha* Verco, 1909: 332, pl. 27 figs. 8, 9. Off Cape Jaffa, S.A., 90 fm. Paratypes: F30443-4(2).  
*paula*, *Mitromorpha* Verco, 1909: 331, pl. 28 fig. 5. St. Vincents Gulf, S.A. Paratypes: F30445(2), F30446(1).  
*rigorata*, *Mangelia* Hedley, 1909: 459, pl. 44 figs. 98, 99. Off Cairns Reef, north Qld, 5-10 fm. Paratype: F659(1).  
*shoutenensis*, *Mangilia* May, 1911: 393, pl. 15 fig. 19. 3 mi. E. of Schouten Is., Tas., 40 fm. Paratypes: F30641-2(2).  
*sexdentata*, *Clathurella* Pritchard & Gatliff, 1899: 104, pl. 8 fig. 7. Sorrento Beach, Port Phillip, Vic. Holotype: F599; paratype: F19137(1).  
*trachys*, *Mangelia* Tenison-Woods, 1878: 57. Brighton, Vic. Syntypes: F641(2).  
*tribulationis*, *Glyphostoma* Hedley, 1909: 454, pl. 42 fig. 81. Off Hope Islands, north Qld, 5-10 fm. Syntype: F508(1).  
*trophonoides*, *Drillia* Verco, 1909: 303, pl. 26 figs. 3, 4. Off Beachport, S.A., 150 fm. (NMV paratype F30421: off Cape Jaffa, S.A., 130 fm). Paratypes: F30420(1), F30421(1).

## Conidae

*advertex*, *Rhizoconus* Garrard, 1961: 30, pl. 1 fig. 1. Off Moreton Is., Qld, 80 fm. (NMV paratypes: NNE of Cape Byron, N.S.W., 68 fm). Paratypes: F21151(2 + 1 preserved).  
*apiculatus*, *Utriculo* Tate, 1879: 138, pl. 5 fig. 3. King George's Sound, W.A. Paratypes: F30738(2).  
*illawarra*, *Leptoconus* Garrard, 1961: 31, pl. 1 fig. 2. E. of Stanwell Park, N.S.W., 75 fm. (NMV paratypes: off Broken Bay, N.S.W.). Paratypes: F21325(3).  
*rufimaculosus*, *Conus* Macpherson, 1959: 54, figs. 5, 5a-c. Tweed Heads, N.S.W., 15-30 fm. Holotype: F18465; paratypes: F18188(2).  
*segravei*, *Conus* Gatliff, 1891: 179. Shoreham, Western Port, Vic. Holotype: F491.  
*superstes*, *Conus* Hedley, 1911: 111, pl. 20 figs. 35, 36. 40 mi. S. of Cape Wiles, S.A., 100 fm. Paratypes: F463-70(8).  
*wallangra*, *Floraconus* Garrard, 1961: 29, pl. 1 fig. 3. E. of Stanwell Park, NSW, 75 fm. Paratype: F23145(1).

## Terebridae

*inconspicua*, *Terebra* Pritchard & Gatliff, 1902: 181, pl. 9 fig. 2. Off Rhyll, Phillip Is., Westernport, Vic., 5-6 fm. Holotype: F541.

## SUBCLASS OPISTHOBRANCHIA

### Pyramidellidae

*brevis*, *Turbonilla* Pritchard & Gatliff, 1900: 135, pl. 21 fig. 4. Off Rhyll, Phillip Is., Western Port, Vic. Holotype: F518.  
*capiticava*, *Pseudodrissoina* Hedley & May, 1908: 118, pl. 23 figs. 12, 13. 7 miles E. of Cape Pillar, Tas., 100 fm. Paratype: F30594(1).  
*depressa*, *Pseudoskenella* Ponder, 1973: 121, figs. 1-3. Boat harbour Reef, N. of Cronulla, N.S.W. (NMV paratypes: E. end of Long Reef, Collaroy, N.S.W.). Paratypes: F27951(2).  
*gabrielii*, *Turbonilla* Hedley, 1909: 449, pl. 42, fig. 74. Off Hope Islands, north Qld, 5-10 fm. Paratype: F31382(1).  
*insignis*, *Cingulina* May, 1911: 396, pl. 15 figs. 24, 24a. 3 mi. E. of Schouten Is., Tas., 40 fm. Paratypes: F5185(1), F30735(1).  
*jonesiana*, *Odostomia* Tate, 1898: 70. Type locality not published, (Holotype (SAM): Tinatara bore, S.A.; NMV paratype: S.A.). Paratype: F30740(1).  
*magna*, *Cingulina* Gatliff & Gabriel, 1910: 84, pl. 19 fig. 8. Shoreham, Westernport, Vic. Holotype: F608.  
*metcalfei*, *Odostomia* Pritchard & Gatliff, 1900: 136, pl. 21 fig. 3. Flinders, Westernport, Vic. Holotype: F23340.  
*micro*, *Turbonilla* (*Odina*) Pritchard & Gatliff, 1900: 134, pl. 21 fig. 1. Off Rhyll, Phillip Is., Westernport, Vic., 4 fm. Holotype: F547.  
*occultidens*, *Odostomia* May, 1916: 90, pl. 4 fig. 19. Off Cape Pillar, Tas., 100 fm. Paratype: F30449(1).  
*portseaensis*, *Turbonilla* Gatliff & Gabriel, 1911: 188, pl. 46 fig. 1. Portsea, Vic. Holotype: F721; paratypes: F28569(17).  
*rhyllensis*, *Cingulina* Gatliff & Gabriel, 1910: 84, pl. 19 fig. 9. Between Phillip and French Islands, Westernport, Vic., 5-7 fm. Holotype: F713.  
*victoriae*, *Odostomia* Gatliff & Gabriel, 1911: 187, pl. 46 fig. 2. Port Albert, Vic. Holotype: F552, Paratype: F30452(1).

### Acteonidae

*hyalina*, *Pupa* Verco, 1970b: 310, pl. 29 fig. 11. Fowler and Streaky Bays, S.A. (NMV paratype: Streaky Bay.). Paratype: F31656(1).

### Retusidae

*chrysoma*, *Retusa* Burn, 1974a: 115, figs. 1-3. N. side of Rocky Point Reef, at E. end of Bluff Road., Yanakie, Corner Inlet, Vic. Holotype: F27488(preserved); paratypes: F27489(7 preserved).  
*iredaleana*, *Retusa* Hedley, 1915: 752, pl. 85 figs. 93, 94. Middle Harbour, Sydney, N.S.W. Paratypes: F30728(3).  
*kimberi*, *Retusa* Cotton & Godfrey, 1833: 77, pl. 1 fig. 5. Gulf St. Vincent, S.A., 10 fm. Paratypes: F30462(2).  
*pelyx*, *Retusa* Burn, 1974b: 37, figs. 1-6. S. end of Swan Bay, Queenscliff, Vic. Holotype: F27911(preserved); paratypes: F27912(27 preserved).

### Ringiculidae

*meridionalis*, *Ringicula* Hedley, 1911: 112, pl. 20 fig. 38. 40 miles S. of Cape Wiles, S.A., 100 fm. Paratypes: F476-9(4).



## Haminoeidae

*campanula*, *Cylichnatys* Burn, 1978: 104, figs. 11-17. N. side of Rocky Point reef, E. end of Bluff Rd, Yanakie, Corner Inlet, Vic. Holotype: F30112(preserved); paratypes: F30113(3 preserved, 1 shell).

*lagena*, *Austrocylichna* Burn, 1978: 99, fig. 9. Off Cape Jaffa, S.A., 238 m. Paratype: F30111(1).

*leucampyx*, *Austrocylichna* Burn, 1978: 98, fig. 7. Woody Point, Moreton Bay, Qld. Holotype: F29802; paratypes: F29803(7).

*maugeansis*, *Haminoea* Burn, 1966f: 330, figs. 1-2. Port MacDonnell, S.A. Holotype: F26134(preserved); paratype: F25658(1 preserved).

*tumida*, *Nipponatys* Burn, 1978: 101, fig. 10. Thomson's Creek at playground, Breamlea, Vic. Holotype: F29798; paratypes: F29799(5).

## Scaphandridae

*sculpta*, *Bullinella pygmaea* Gatliff & Gabriel, 1913: 69. Off Wilson's Promontory, Vic. Holotype: F712; paratypes: F30383(3).

## Aglajidae

*henri*, *Aglaja* Burn, 1969: 71, figs. 8, 9. Point Henry, Corio Bay, Port Phillip, Vic. (NMV paratype: Yanakie Beach, Corner Inlet, Vic.). Holotype: F26905(preserved); paratype: F26906(1 preserved).

*queritor*, *Aglaja* Burn, 1957d: 117, pl. 8 fig. 1. Portarlington, Vic. Holotype: F16753(preserved); paratype: F30997(1).

## Philinidae

*beachportensis*, *Philine* Verco, 1909a: 275, pl. 20 figs. 1-3. Off Beachport, S.A., 200 fm. (NMV paratypes: off Cape Jaffa, S.A., 130 fm). Paratypes: F31126-7(2).

## Runcinidae

*australis*, *Runcina* Burn, 1963d: 11, figs. 1-11. Point Danger, Torquay, Vic. (NMV paratype: N. side of Long Reef, N.S.W.). Holotype: F21270(preserved); paratype: F23066(radula and gizzard plates only).

*ilbi*, *Ilbia* Burn, 1963a: 15, figs. 12-20. Point Lonsdale, Vic. Holotype: F23062(preserved - fragments only).

*marshae*, *Runcina* Burn, 1966d: 46, figs. 1-7. Nukulau Island, Viti Levu, Fiji. Holotype: F25645(preserved).

## Aclididae

*pellucida*, *Aclis* Gatliff & Gabriel, 1911: 187, pl. 46 fig. 4. Between Phillip and French Islands, Westernport, Vic., 6 fm. Holotype: F506; paratype: F30533(1).

*columnaria*, *Aclis* May, 1911: 397, pl. 15 fig. 27. 7 miles E. of Cape Pillar, Tas., 100 fm. Paratype: F30380(1).

## Pleurobranchidae

*mediatus*, *Berthella* Burn, 1962b: 142, pl. 1 fig. 3, pl. 2 figs. 7, 8. Flinders, Vic. Holotype: F20146(presumed lost); paratypes: F20147(2 preserved).

*postrema*, *Berthella* Burn, 1962b: 140, pl. 1 fig. 2, pl. 2 figs. 3, 4. Long Reef, Collaroy, N.S.W. Holotype: F20145 (preserved).

*serenitas*, *Berthellinops* Burn, 1962b: 143, pl. 1 fig. 4, pl. 2 figs. 5, 6. Flinders, Vic. Holotype: F20144(preserved).

## Juliidae

*australis*, *Midorigai* Burn, 1960a: 46, figs. 8-14. Torquay, Vic. (NMV paratypes: Flinders, Vic.). Holotype: F21193(preserved); paratypes: F21194(3 preserved).

*babai*, *Tamanovalva* Burn, 1965: 735. Point Danger, Torquay, Vic. Holotype: F23064(preserved); paratypes: F22700(2 preserved).

*belvederica*, *Berthelinia* (*Edenttellina*) *chloris* Keen & Smith, 1961: 53. Puerto Ballandra Bay, about 10 miles northeast off La Pax, Baja California. Paratype: F22711(1).

*caribbea*, *Berthelinia* Edmunds, 1963: 731, pl. 1. Near Port Royal, Jamaica. Paratypes: F31254(2), F31255(1). Note: Very poor condition.

*fijiensis*, *Tamanovalva* Burn, 1966d: 54, figs. 15-19. Nukulau island, Viti Levu, Fiji. Holotype: F25647(preserved).

*typica*, *Edenttellina* Gatliff & Gabriel, 1911: 190, pl. 46 figs. 5, 6. Portsea, Port Phillip, Vic. Holotype: F515.

## Cylindrobullidae

*ficula*, *Volvatella* Burn, 1966d: 48, figs. 8-14, 36. Nukulau Island, Viti Levu, Fiji. Holotype: F25646(preserved).

## Elysiidae

*bennettiae*, *Elysia* Thompson, 1973: 248, figs. 2a, 3f. Heron Island, Great Barrier Reef, Qld. Paratype: F27467(1 preserved).

*furvacauda*, *Elysia* Burn, 1958: 22, pl. 6 fig. 1. Torquay, Vic. Holotype: F19467(preserved).

## Polybranchiidae

*pallens*, *Cyerce nigra* Burn, 1957b: 14, pl. 3 figs. 8-11. Queenscliff, Vic. Holotype: F18603(preserved); paratype: F18604(1 preserved).

## Stiligeridae

*fralila*, *Placida* Burn, 1966c: 105, figs. 14-16. Grenmount, Coolangatta, Qld. Paratypes: F25650(2 preserved).

*margaritae*, *Ercolania* Burn, 1974: 52, figs. 7-10. Point Lonsdale, Vic. Holotype: F27922(preserved); paratypes: F27923(90 preserved).

## Hancockiidae

*burni*, *Hancockia* Thompson, 1972: 68, figs. 2e, 3-5. Pt. Lookout, North Stradbroke Island, Qld. Paratype: F29518(1 preserved).

## Dotidae

*ostentus*, *Doto* Burn, 1958: 33, pl. 6 fig. 5. Torquay, Vic. Holotype: F19478(preserved); paratype: F19479(1 preserved).

## Dorididae

*albata*, *Trippa* Burn, 1962a: 101, fig. 5. Sutherland's Bay, Phillip Island, Vic. Holotype: F20504(preserved).  
*alternata*, *Glossodoris* Burn, 1957b: 17, pl. 1 figs. 10, 11. Portarlington, Vic. Holotype: F27385(preserved); paratype: F27386(1 preserved).  
*arbuta*, *Glossodoris* Burn, 1961c: 55, pl. 15 figs. 1, 2. Point Danger, Torquay, Vic. Holotype: F21272(preserved and radula slide).  
*crawfordi*, *Discodoris* Burn, 1969: 84, figs. 19-24. South Channel, Port Phillip Bay, 2 miles NNW of McCrae light-house, Vic., 8 fm. Holotype: F26920(preserved).  
*flindersi*, *Anisodoris* Burn, 1962c: 159, pl. 1 figs. 6, 7. Peak Bay, Spencer Gulf, S.A. Holotype: F17482(preserved).  
*galbanus*, *Platydorid* Burn, 1958: 30, pl. 6 figs. 6, 7. Sutherlands Bay, Phillip Island, Vic. Holotype: F19465(preserved); paratype: F19466(1 preserved).  
*haliclona*, *Glossodoris* Burn, 1957b: 17, pl. 3 fig. 2. Portarlington, Vic. Holotype: F18606(preserved); paratypes: F18607(3 preserved).  
*hartleyi*, *Rostanga* Burn, 1958: 28, pl. 7 figs. 12, 13. Breamlea, Vic. Holotype: F19471(preserved).  
*kulonba*, *Hypselodoris* Burn, 1966a: 191, figs. 1-4. Point Lonsdale, Vic. Holotype: F22717(preserved); paratypes: F25651-2(2 preserved).  
*margaretae*, *Noumea* Burn, 1966a: 195, figs. 7, 8. Portsea Pier, Port Phillip Bay, Vic. Holotype: F22719(preserved); paratypes: F21231(2 preserved).  
*merria*, *Aporodoris* Burn, 1973a: 203, figs. 7-11. Pearson Island, S.A., 52 m. Holotype: F27402(preserved).  
*nivosus*, *Alloiodoris* Burn, 1958: 29, pl. 7 fig. 14. Shoreham, Vic. Holotype: F19468(preserved).  
*paroa*, *Discodoris* Burn, 1969: 86, figs. 30-34. Shoreham, Westernport, Vic. Holotype: F27123(preserved).  
*perplexa*, *Glossodoris* Burn, 1957b: 17, pl. 3 fig. 1. Torquay, Vic. Holotype: F18605(preserved).  
*rossquicki*, *Aphelodoris* Burn, 1966f: 339, figs. 10, 11, 31. Ocean Beach, Flinders, Vic. Holotype: F25659(preserved); paratypes: F26130(6 preserved).  
*sabulosa*, *Thordisa* Burn, 1957b: 20, pl. 1 figs. 6-9. Torquay, Vic. Holotype: F18608(preserved).  
*saintvincentius*, *Hypselodoris* Burn, 1962c: 151, pl. 1 figs. 1, 2. Coobowie, west coast of Gulf St. Vincent, S.A. Holotype: F20757(preserved); Paratypes: F20758(2 preserved).  
*tarka*, *Sclerodoris* Burn, 1969: 88, figs. 35-40. Point Lonsdale, Port Phillip Heads, Vic. (NMV paratype F27127: San Remo, Westernport, Vic., 0.5 mi. E. of pier, 8 fm.) Holotype: F27124(preserved); paratypes: F27125-7(3 preserved).  
*trenberthi*, *Asteronotus* (*Tumbia*) Burn, 1962: 161, pl. 1 figs. 3-5. Fiddler's Bay, south of Cape Bolingbrook, Spencer Gulf, S.A. Holotype: F20763(preserved); paratype: F20764(1 preserved).  
*turia*, *Discodoris* Burn, 1969: 86, figs. 25-29. Waratah Bay, Vic. Holotype: F27121(preserved).  
*victoriae*, *Glossodoris* Burn, 1957b: 16, pl. 3 fig. 4. Torquay, Vic. Holotype: F18611(preserved).

## Dendrodorididae

*albopurpura*, *Dendrodoris* Burn, 1957b: 22, pl. 3 figs. 3, 12. Flinders, Vic. Holotype: F18602(preserved).

*youngei*, *Doto* Thompson, 1972: 73, figs. 2a-b, 6b. Pt. Lookout, North Stradbroke Island, Qld. Paratype: F29519(1 preserved).

## Tethydidae

*pellucida*, *Melibe* Burn, 1957b: 24, pl. 3 figs. 5-7. Torquay, Vic. Holotype: F18612(preserved).

## Goniodorididae

*mapae*, *Drepaniella* Burn, 1961b: 102, figs. 1, 2. South of Point Danger, Torquay, Vic. Holotype: F21273(preserved).

*meraculus*, *Goniodoris* Burn, 1958: 27, pl. 7 figs. 10, 11. Torquay, Vic. Holotype: F19469(preserved).

*mija*, *Okenia* Burn, 1967: 55, figs. 4-5. Point Danger, Torquay, Vic. (NMV paratype: Point Lonsdale, Vic.). Holotype: F26138(preserved); paratype: F26139(1 preserved).

## Onchidorididae

*maugeansis*, *Lamellidoris* Burn, 1958: 26, pl. 7 figs. 8, 9. Torquay, Vic. Holotype: F19473(preserved); paratype: F19474(1 preserved).

*nanega*, *Acanthodoris* Burn, 1969: 91, figs. 41-43. Point Lonsdale, Vic. (NMV paratypes: San Remo, Westernport, Vic.). Holotype: F27134(preserved); paratype: F27135(1 preserved).

## Polyceridae

*arnoldi*, *Nembrotha* Burn, 1957b: 16, pl. 2 figs. 13, 14. Torquay, Vic. Holotype: F18609(preserved); paratypes: F18610(2 preserved).

*janjukia*, *Polycera* Burn, 1962a: 99, figs. 3, 4. Torquay, Vic. Holotype: F20503(preserved).

*multidigitalis*, *Eupharus* Burn, 1957b: 15, pl. Torquay, Vic. Holotype: F18615(preserved); paratype: F18616(1 preserved).

*parvula*, *Palio* Burn, 1958: 23, pl. 6 figs. 2, 3. Torquay, Vic. Holotype: F19470(preserved).

## Chromodorididae

(Species placed in this family by Rudman, 1982)

*burni*, *Chromodoris* Rudman, 1982: 208, figs. 1f, 8, 11. Centipede Reef, off Townsville, Qld, 12 m. (NMV paratypes: F30467 from MacGillvaray's Reef, Lizard Is., Qld, 5 m; F30485 from Heron Is., Qld, 10 m) Paratypes: F30467(1), F30485(1).

*colemanni*, *Chromodoris* Rudman, 1982: 231, figs. 17g, 28, 29. Granite Head, Lizard Is., Qld, 10 m. (NMV paratype: Bushy Is., Qld, 3 m). Paratype: F30476(1).

*kuiteri*, *Chromodoris* Rudman, 1982: 223, figs. 17d, 23, 24. Coral Canyons, Heron Is., Qld. (NMV paratypes: F27369, F30353 from Keppel Bay, Yeppoon, Qld; F30362 from Gun Is., Houtmann Abrolhos Group, W.A.) Paratypes: F24331(1), F27369(2), F30353(2), F30362(1).

*strigata*, *Chromodoris* Rudman, 1982: 229, figs. 17c, 26, 27. Broadhurst Reef, Townsville, Qld, 15 m. (NMV paratype: Samaurez Reef, Coral Sea, off Swains Reef, Qld, 20 m). Paratype: F30481(1).



*maugeana*, *Dendrodoris* Burn, 1962a: 10, fig. 8. Flinders, Vic. Holotype: F20508(preserved); paratypes: F20509(2 preserved).  
*vadisi*, *Dendrodoris* Burn, 1962c: 166. Portarlington, Vic. Holotype: F20974(preserved).

### Zephyrinidae

*affinis*, *Proctonotus*? Burn, 1958: 32, pl. 7 fig. 15. Torquay, Vic. Holotype: F19476(preserved).

### Flabellinidae

*aurantia*, *Coryphellina poenicia* Burn, 1962a: 109. Portarlington, Vic. Syntypes: F20515(13 preserved).

### Eubbranchidae

*rubeolus*, *Eubbranchus* Burn, 1964: 13, figs. 6-10. Point Lonsdale, Port Phillip Heads, Vic. Holotype: F23458(preserved and radula slide).

### Cuthonidae

*bractea*, *Cuthona* Burn, 1962a: 110, figs. 11, 12. Torquay, Vic. Holotype: F20516(preserved); paratype: F20517(1 preserved).

### Tergipedidae

*catachroma*, *Catriona* (*Eurycatriona*) Burn, 1963b: 15, figs. 1-6. Point Danger, Torquay, Vic. Holotype: F23443(preserved); paratype: F23444(1 preserved).  
*colmani*, *Narraeolida* Burn, 1961a: 134, fig. 4. Long Reef, Narrabeen, N.S.W. Paratype: F21378(1 preserved).  
*macquariensis*, *Trinchesia* Burn, 1973b: 42, figs. 8-12. Buckles Bay, Macquarie Island, 5 m. (NMV paratype: Garden Cove, Buckles Bay). Holotype: F27406(preserved); paratype: F27407(1 preserved).  
*pauculus*, *Tergipes* Burn, 1962a: 113, fig. 14. Portarlington, Vic. Holotype: F20521(preserved).  
*sorum*, *Trinchesia* Burn, 1964: 17, figs. 11-15. Point Lonsdale, Port Phillip Heads, Vic. Holotype: F23463(preserved and radula slide).  
*thelmae*, *Toorna* Burn, 1964: 19, figs. 16-21. Point Lonsdale, Port Phillip Heads, Vic. Holotype: F23464(preserved and radula slide).  
*viridiana*, *Catriona* Burn, 1962a: 111, fig. 13. Torquay, Vic. Holotype: F20520(preserved).

### Favorinidae

*breviceratae*, *Echinopsole* Burn, 1962a: 124, figs. 25, 26. Torquay, Vic. Holotype: F20535(preserved).  
*fucia*, *Austreaolis* Burn, 1962a: 122, figs. 23, 24. Queenscliff, Vic. Holotype: F20534(preserved).  
*macphersonae*, *Cratena* Burn, 1962a: 118, figs. 19, 20. Flinders, Vic. Holotype: F20790(preserved); paratypes: F20863(2 preserved).  
*pannucius*, *Favorinus* Burn, 1962a: 117, fig. 18. Flinders, Vic. Holotype: F20531(preserved).  
*westralis*, *Austreaolis* Burn, 1966b: 31, figs. 11-14. Rottneest Island, W.A. North side of west end. (NMV paratypes F26641-3: Radar Reef, Rottneest Is.). Paratypes: F25657(1 preserved), F26641-3(3 preserved).

### Aeolidiidae

*incola*, *Cerberilla* Burn, 1974: 54, figs. 11-14. Corio Bay, Vic., 12 m. (NMV paratypes: F27920 E. of Portarlington, Vic., 20 m; F27921 W. of Mt. Martha, Vic., 20 m). Holotype: F27919(preserved); paratypes: F27920-1(2 preserved).

### Facelinidae

*hartleyi*, *Facelina* Burn, 1962a: 116, fig. 17. Flinders, Vic. Holotype: F20528(preserved); paratypes: F20529(2 preserved).  
*peonica*, (?) *Hervia* Burn, 1957b: 25, pl. 2 figs. 7-10. Breamlea, Vic. Holotype: F18613(preserved); paratypes: F18614(3 preserved).

## SUBCLASS PULMONATA

### Ellobiidae

*tatei*, *Leuconopsis* Gatliff, 1905: 12, fig. 2. Fowler's Bay, S.A. Holotype: F550.  
*victoriae*, *Leuconopsis* Gatliff, 1905: 12, fig. 1. Portsea, Port Phillip, Vic. Holotype: F538.

### Siphonariidae

*acervus*, *Triellsiphon* Iredale, 1940: 439, pl. 34 figs. 22, 23. Canala, New Caledonia. Paratypes: F13844(2).  
*commixtus*, *Parellsiphon* Iredale, 1940: 437. Noumea, New Caledonia. Paratypes: F13842(2).  
*currumbinensis*, *Siphonaria* (*Siphonaria*) Hubendick, 1955: 133. Currumbin, Qld. (NMV paratype F13948: Noosa, Qld). Holotype: F15562; paratypes: F13953(2), F13948(2). (Note: We are unable to locate the preserved paratypes referred to in the description.)  
*elegans*, *Planesiphon* Iredale, 1940: 441, pl. 34 figs. 3, 4. Keppel Bay, Qld. Paratype: F13845(1).  
*jeanae*, *Siphonaria* (*Siphonaria*) Jenkins, 1984: 114, pls. 1a-j, 2a-i, figs. 1, 2. Ceduna, S.A. (NMV paratype: Neptune Bay, S.A.) Paratype: F15260(1).  
*marza*, *Ellisiphon* Iredale, 1940: 438, pl. 14 figs. 1, 2. Keppel Bay, Qld. paratypes: F13843(3).  
*oppositus*, *Mallorisiphon* Iredale, 1940: 440. Keppel Bay, Qld. Paratype: F13839(1).  
*soranus*, *Planesiphon* Iredale, 1940: 441, pl. 34 figs. 20, 21. Townsville, Qld. Paratypes: F13840(2).  
*zonata*, *Siphonaria* Tenison-Woods, 1878a: 99. South Tasmanian coast. Syntypes: F686(6).

### Ancylidae

*marie*, *Ancylus* Petterd, 1902: 1. Maria Island, east coast, Tas. Syntype: F30930.

### Planorbidae

*arachnoidea*, *Physa* Tenison-Woods, 1878b: 63. Mordialloc, Vic. Syntypes: F484-7(4). (Note: Gabriel (1939) figured specimen F646 as 'type'; this is not included here as it is not from the type locality.)  
*crebreciliata*, *Physa* Tenison-Woods, 1878b: 63. Caulfield, Melbourne, Vic. Holotype: F652; paratypes: F450-2(3).



*kershawi*, *Physa* Tenison-Woods, 1878b: 64. Upper Yarra, Vic. Holotype: F495.  
*pilosa*, *Physa* Tenison-Woods, 1878b: 63. Type locality not given (specimen label: University Grounds, Melbourne). Holotype: F507; paratypes: F581-2(2).  
*sisurnius*, *Bullinus* Hedley, 1918: 282, pl. 41 figs. 5-7. Paterson Range, W.A. Paratypes: F26929(3).  
*yarraensis*, *Physa* Tenison-Woods, 1878b: 64. Upper Yarra, Vic. Syntypes: F645(2).

### Chondrinidae

*bannertonensis*, *Bifidaria* Gabriel, 1930: 64, pl. 3 figs. 9, 10. Bannerton, Vic. Holotype: F702; paratypes: F703(1), F631(3), F26927(30).

### Pupillidae

*beltiana*, *Pupa* Tate, 1894: 191. Central Australia. Paratypes: F26922(2).  
*ficulnea*, *Pupa* Tate, 1894: 191. Central Australia. Paratypes: F30063(3).  
*ischna*, *Pupa* Tate, 1894: 191. Central Australia. Paratypes: F30060(2).  
*larapinta*, *Pupa* Tate, 1896: 205, pl. 19 fig. 19. Central Australia. Paratypes: F30062(2).

### Subulinidae

*interioris*, *Stenogyera* Tate, 1894: 191. Central Australia. Paratypes: F30064(7).

### Clausiliidae

*ceylanica*, *Clausilia* Benson, 1863: 89. Fort McDonald, Ceylon, 4500 ft. (specimen label: Ceylon). Possible syntypes: F525-7(3).

### Rhytididae

*atramentaria*, *Victaphanta* Shuttleworth, 1852: 194. Neotype selected, Smith, 1970: 13. Gentle Annie Camp, junction of Labertouche, Neerim and Powelltown roads, Vic. Neotype: F27376(preserved).  
*brunnea*, *Paryphanta gilliesi* Powell, 1938: 138. 20-30 ft. above sea, north side of Paturau River, West Nelson, New Zealand. Paratypes: F17862(2).  
*compacta*, *Paryphanta* Cox & Hedley, 1912: 8, pl. 1 figs. 3-5. Smithers Creek, Otway Ranges, Vic. (NMV Paratypes: Erskine Falls, Loutit Bay). Paratypes: F690(3).  
*koputaroa*, *Paryphanta traversi* Powell, 1946: 136. Horowhenua Plain, approx. 1.5 miles N.N.E. of Koputaroa Railway Station. (NMV paratypes: near Koputaroa, 4 miles N. of Levin, New Zealand). Paratypes: F26846(2).

### Bulimulidae

*caperatus*, *Placostylus bollonsi* Powell, 1948: 289, pl. 55 figs. 4, 5. Great Island, Three King's Islands, New Zealand. No. 4. Colony, NW Landing slope, about 500 ft. Paratypes: F17870(2).  
*esperantia*, *Bothriembryon* Iredale, 1939: 21, pl. 2 fig. 8. Type locality presumed Esperance. (NMV paratypes: Esperance). Paratypes: F3331(36), F26930(4).

*franki*, *Bothriembryon fuscus* Iredale, 1939: 29, pl. 2 fig. 25. Deep River, Nornalup Inlet, W.A. Paratypes: F3332(9), F26931(4).

*grantianus*, *Bothriembryon rhodostomus* Iredale, 1939: 21, pl. 2 fig. 5. Charley Is., Recherche Arch., W.A. Paratypes: F3333(9), F26392(2).

*hullianus*, *Bothriembryon rhodostomus* Iredale, 1939: 20, pl. 2 fig. 4. Gunton Is., Recherche Archipelago, W.A. Paratype: F3335(1).

*keenorum*, *Placostylus (Maoristylus) ambagiosus* Powell, 1947: 186. Maungapiko, east slope at 50-150 ft, eastern end of Spirits Bay, New Zealand. Paratypes: F17869(2).

*multispirus*, *Bothriembryon* Macpherson, 1951a: 30, fig. 20. mi. W. of Cocklebidly Waterhole, W.A. Holotype: F5716; paratypes: F3068(2), F3073(2). Note: 2 further paratypes of F3068 lost.

*wrightianus*, *Bothriembryon rhodostomus* Iredale, 1939: 21, pl. 2 fig. 6. Rabbit Is., Recherche Arch., W.A. Paratypes: F3334(18), F26933(4).

### Cerionidae

For the following type details (references, localities etc.) see Clench, 1957; original descriptions were not seen by present authors.

*albolabrum*, *Strophlops* Maynard & Clapp, 1921: 129, pl. 27 figs. 3-4. Great Harbor Key, Berry Islands, Bahamas. Paratypes: F26732(12).

*arbusta*, *Strophlops* Maynard & Clapp, 1921: 133, pl. 30 figs. 5-6. Guana Key, Berry Islands, Bahamas. Paratypes: F26729(8), F26733(12).

*argentina*, *Strophlops* Maynard, 1913: 191. Three Silver Keys, New Providence, Bahamas. Paratypes: F26730(8).  
*caduca*, *Strophlops* Maynard & Clapp, 1921: 133, pl. 30 figs. 9, 10. Cabbage Key, Berry Is., Bahamas. Paratypes: F26731(7).

*caerulescens*, *Strophlops* Maynard & Clapp, 1920: 122, pl. 23 fig. 5. Key north of Key opposite Roseville, Great Exuma, Bahamas. Paratypes: F26734(10).

*cana*, *Strophlops* Maynard & Clapp, 1921: 137, pl. 34 figs. 3, 4. Fortune Key, Berry Islands, Bahamas. Paratypes: F26735(14).

*capraia*, *Strophlops* Maynard & Clapp, 1921: 131, pl. 28 figs. 7, 8. North Goat Key, Fresh Creek, Andros, Bahamas. Paratypes: F26736(10).

*cervina*, *Strophlops* Maynard & Clapp, 1920: 121, pl. 22 figs. 8, 9. Refuge Key, East of Norman's Pond Key, Bahamas. Paratypes: F26737(14).

*cinerea*, *Strophia* Maynard, 1894: 119, fig. 35. Middle Bay, Hog Is., New Providence, Bahamas. Paratypes: F26738(15).

*confusa*, *Strophlops* Maynard & Clapp, 1921: 130, pl. 28 figs. 1, 2. Little Harbor Key, Berry Islands, Bahama Islands. Paratypes: F26739(10).

*copia*, *Strophia* Maynard, 1889: 22, pl. 1 figs. 1, 2. West end of Cayman Brac and north side of Little Cayman, Bahamas. Paratypes: F26740(9).

*cyclura*, *Strophlops* Maynard & Clapp, 1920: 119, pl. 3 figs. 3-5. Bitter Guana Key, Bahamas. Paratypes: F26741(15).

*exigua*, *Strophlops* Maynard, 1913: 196. Southern Portion of Fleming Key, Bahamas. Paratypes: F26742(15).

*extensa*, *Strophlops* Maynard, 1924: 2. Baptist Chapel, East Nassau, New Providence, Bahamas. Paratypes: F26743(15), F26744(15).

*macularia*, *Strophlops* Maynard, 1913: 189. South shore of New Providence, West wide of first sound to 2 miles west to a salina (NMV specimens: between Fox Hills and south shore(?), New Providence). Paratypes: F26748(16).

*mayoi*, *Strophlops* Maynard & Clapp, 1921: 148, pl. 43 figs. 9, 10, field E. of Mackey St., Nassau, New Providence, Bahamas. Paratype: F26745(15), F26749(13).

*obtusa*, *Strophlops* Maynard & Clapp, 1921: 132, pl. 29 figs. 9, 10. Cat Key, Berry Islands, Bahamas. Paratypes: F26746(15).

*ornatula*, *Strophlops* Maynard, 1913: 197. Current Settlement, Eleuthera, Bahamas. Paratypes: F26750(15).

*palidula*, *Strophlops* Maynard & Clapp, 1921: 145, pl. 40 figs. 9, 10. East end of Hogg Is., Nassau, New Providence, Bahamas. Paratypes: F26751(15).

*palmata*, *Strophlops* Maynard & Clapp, 1920: 120, pl. 21 figs. 1, 2. Wax Key, Bahamas. Paratypes: F26752(15).

*persuasa*, *Strophlops* Maynard & Clapp, 1921: 131, pl. 28 figs. 9, 10. Along north shore of Fresh Creek, Andros, Bahamas. Paratypes: F26753(15).

*plebia*, *Strophlops* Maynard & Clapp, 1921: 130, pl. 28 figs. 3, 4. Lignum Vitae Key, Berry Islands, Bahamas. Paratypes: F26754(14).

*porcina*, *Strophlops* Maynard & Clapp, 1921: 132, pl. 29 figs. 7, 8. Frazar's Hog Key, Berry Islands, Bahamas. Paratypes: F26755(9).

*primordia*, *Strophlops* Maynard & Clapp, 1921: 132, pl. 29 figs. 1, 2. Great Stirrup Key, Bahamas. Paratypes: F26756(12).

*ritchiei*, *Strophia* Maynard, 1894: 135, pl. 41. Highburn Key, Bahamas. Paratypes: F26757(9).

*rosacea*, *Strophlops* Maynard & Clapp, 1921: 139, pl. 35 figs. 7, 8. West Silver Key, Nassau, New Providence, Bahamas. (NMV paratypes: North Silver Key. See Clench, 1957). Paratypes: F26758(15).

*rufula*, *Strophlops* Maynard, 1924: 3. West side of Kemp's Road, St. James corner, Nassau, New Providence, Bahamas. Paratypes: F26759(15).

*santesoni*, *Strophlops* Maynard & Clapp, 1921: 139, pl. 36 figs. 3, 4, pl. 15 fig. 5. North shore of New Providence, west of Nassau, Bahamas. Paratypes: F26760(16).

*sutata*, *Strophlops* Maynard & Clapp, 1921: 133, pl. 31 figs. 3, 4. Petit Key, Bahamas. Paratypes: F26761(14).

*stroutii*, *Strophlops* Maynard & Clapp, 1920: 120: 120, pl. 21 figs. 1, 2. Several localities given, all Bahamas (NMV paratypes: Strout Key, Bahamas). Paratypes: F26762(12).

*travelii*, *Strophlops* Maynard & Clapp, 1921: 135, pl. 32 figs. 3, 4. Bridgewater Key, Berry Islands, Bahamas. Paratypes: F26763(13).

## Punctidae

*sinistra*, *Laoma* Gabriel, 1930: 81, pl. 2 fig. 8. Tarraville, Vic. Holotype: F710; paratypes: F26925(8), F1108(1), F532(1).

*turbinuloidea*, *Laoma* Gabriel, 1930: 81, pl. 2 fig. 7. Bairnsdale, Vic. Holotype: F709.

## Charopidae

*aemula*, *Charopa* Tate, 1894: 192. Central Australia. Paratypes: F30883(2).

*austera*, *Endodonta* Hedley, 1912: 266, pl. 9 figs. 52-4. Forest, near Logan Village, Qld. Paratypes: F4940(10 + fragments).

*bairnsdalensis*, *Charopa* Gabriel, 1930: 78, pl. 2 figs. 11, 12. Bairnsdale, Vic. Holotype: F704; paratypes: F30749(2).

*brazenori*, *Charopa* Gabriel & Macpherson, 1947: 160. Honey Suckle Track, Gelantipy, Vic. Holotype and paratypes: F1682(1 + 2). Note: 4 paratypes lost, holotype and paratypes mixed.

*cannfluvialilus*, *Allodiscus* Gabriel, 1929: 133, figs. 1, 2. Cann River, Vic. Holotype: F569; paratypes: F30929(5).

*cinnamea*, *Endodonta* Hedley, 1912: 267, pl. 10 fig. 57. Bell Bird, Coolabunia, Kingaroy, Qld. Paratypes: F4941(12).

*colliveri*, *Charopa* Gabriel, 1947: 118, pl. 9 fig. 4. End of North Arm, Lakes Entrance, Vic. Holotype: F1060; paratype: F1061(1).

*erskinensis*, *Charopa* Gabriel, 1930: 76, pl. 2 figs. 1, 2. Near Sanctuary, Erskine River, Lorne, Vic. Holotype: F707; paratypes: F457- 9(3).

*gatliffi*, *Charopa* Gabriel, 1930: 76, pl. 2 figs. 3, 4. Near Splitters Falls, Lorne, Vic. Holotype: F705; paratypes: F26926(8), F632(3), F30889(2).

*heardensis*, *Notodiscus hookeri* Dell, 1964b: 168, figs. 1, 2. Atlas Cove, Heard Is. (NMV paratypes: F7444, Laurens Peninsula, Heard Is.; F7447, West Bay, Heard Is.; F22829, near Red I., Heard Is.). Holotype: F23571; paratypes: F7444(5), F7447(5), F2829(8 preserved), F22835(20 preserved).

*illustra*, *Charopa* Gabriel, 1947: 117, pl. 9 fig. 2. End of North Arm, Lakes Entrance, Vic. Holotype: F1056; paratypes: F1057(9), F30917(6), F30751(3).

*inexpectata*, *Charopa* Gabriel, 1947: 118, pl. 10 fig. 5. Michel Dene, Marysville, Vic. Holotype: F1062.

*jemmysensis*, *Charopa* Gabriel, 1947: 117, pl. 9 fig. 1. near Jemmy's Point, Lakes Entrance, Vic. Holotype: F1054; paratypes: F1055(18).

*lakesentranciencia*, *Charopa* Gabriel, 1947: 119, pl. 10 fig. 7. End of North Arm, Lakes Entrance Vic. Holotype: F1063; paratypes: F30916(8), F1064(1).

*marysvillensis*, *Allodiscus* Gabriel, 1947: 122, pl. 10 fig. 6. (non fig. 8). Marysville, near Wolfram mine, Vic. Holotype: F1066.

*meracea*, *Flammulina* Cox & Hedley, 1912: 13, pl. 3 figs. 19-21. Dandenong Range, Vic. (NMV paratypes F633: Fernshaw, Vic.) Holotype: F634; paratypes: F22744(10), F30798(1), F633(3).

*ochra*, *Endodonta (Charopa)* Webster, 1904: 107, figs. 2, 2a. Waiuku, New Zealand. Paratypes: F26928(4).

*okeana*, *Charopa* Gabriel, 1947: 117. Mt. Feathertop, Vic. Holotype: F1058.

*problematica*, *Charopa* Gabriel, 1947: 119. Fernshaw, Vic. Holotype: F1065; paratypes: F22825(11), F30914(4), F30913(1).

*retinoides*, *Charopa* Tate, 1894: 192. Central Australia. Syntypes: F30068(2).

*scindocataracta*, *Charopa* Gabriel, 1930: 77, pl. 2 figs. 9, 10. Near Splitters Falls, Lorne, Vic. Holotype: F708; paratypes: F630(2), F1109(1).

*snoweyensis*, *Charopa* Gabriel & Macpherson, 1947: 161, pl. 13 fig. 2. Snowy River, Moon's Crossing, Vic. Holotype: F1673 A; paratypes: F1673 B, C(12); F30915(2). Note: description refers to 5 paratypes F1673.



*tarravillensis*, *Charopa* Gabriel, 1930: 77. Tarraville, Vic. Holotype: F706; paratypes: F30750(8), F621(2).  
*translucens*, *Thalassohelix* Gabriel, 1934: 157, pl. 18. Lilly Pilly Gully, National Park, Wilson's Promontory, Vic. Holotype: F618; paratype: F489(1).

### Succineidae

*interioris*, *Succinea* Tate, 1894: 191. Central Australia. Paratypes: F30058(1), F7611(1).

### Helicarionidae

*incensa*, *Microcystis* Hedley, 1912: 262, pl. 7 fig. 41. Pines scrubs of Coolabunia, Kingaroy, Qld. Paratypes: F4942(12).  
*responsivus*, *Microcystis* Hedley, 1912: 262, pl. 7 figs. 36-38. Bottle Tree Scrub, west of Gladstone, Port Curtis, Qld. Paratypes: F4812(3).  
*rubicundus*, *Helicarion* Darntall & Kershaw, 1978: 2. North-east flank of Hawkes Hill, near Eagle Hawk Neck, south-east Tas. Paratypes: F29517(2 preserved).

### Camaenidae

*alychonopsis*, *Dipnelix* Macpherson, 1954: 56, figs. 2a-c. Mondrain Is., Recherche Arch., W.A. Holotype and paratype: F12635(1+1).  
*amaxensis*, *Torresitrachia* Solem, 1979: 79, pl. 4c-f, figs. 5g-i, figs. 15a-c, 16a-b. Sta. WA-205, Mitchell Plateau, north-west Kimberley, W.A. (NMV paratypes: F31621 Sta. WA-391 Mitchell Plateau). Paratypes: F31620(1), F31621(1).  
*arcigerens*, *Hadra* Tate, 1894: 193. Central Australia. Paratypes: F30061(2).  
*australis*, *Ningbingia* Solem, 1981b: 355, pl. 15f, figs. 77d-f, 87a-b, 109c. Sta. WA-231, 3.5 km north of Tanmurra Creek, Ningbing Ranges, north of Kununurra, W.A. Paratypes: F31608(5).  
*bilarnium*, *Cristilabrum* Solem, 1981b: 411, pl. 18c, figs. 100a-c, 106a-b. Sta. WA-435, South-east of Limestone Mill, north-west of Kununurra, W.A. Paratypes: F31618(5).  
*bubulum*, *Christilabrum* Solem, 1981b: 408, pl. 18b, figs. 99d-f, 105a-b. Sta. WA-237, 0.9 km north of Four Mile Creek, south end Ningbing Ranges, north of Kununurra, W.A. (NMV paratypes F31617, Sta. WA-433, hill just to north of Sta. WA-237). Paratypes: F31616(50), F31617(3).  
*bullia*, *Ningbingia* Solem, 1981b: 334, pl. 15a-b, figs. 74a-f, 75a-f, 79a-b, 80a-b, 81a-b, 109a. Sta. WA-427, east face of ridge, 5.7 km north of No. 8 bore, north end of Ningbing Ranges, north of Kununurra, W.A. (NMV paratypes: sta. WA-428, west and north face of small hill 5.4 km north of No. 8 bore, north end Ningbing Ranges). Paratypes: F31603(6).  
*carinata*, *Amplirhagada* Solem, 1981a: 205, pl. 13c, figs. 37g, 43a-b, 45a-b. Sta. WA-317, 5 km north of Mt Hart Station homestead. (NMV paratypes: Sta. WA-318, 14.5 km north-west of Mt Hart Homestead, Humbert Creek Rd., north-east slope King Leopold Ranges, W.A.). Paratypes: F31577(2).  
*castra*, *Amplirhagada* Solem, 1981a: 286, pl. 13d, figs. 37b, 63a-b, 64b, 67c-f, 68. Sta. WA-206, above Camp Creek, south of 'Crusher,' Mitchell Plateau, W.A. Paratypes: F31598(3), F31597(2 preserved).

*christenseni*, *Turgenitubulus* Solem, 1981b: 365, pl. 16a-b, figs. 88a-f, 91a-b, 92a-b. Sta. WA-228, 1.5 km north of Tanmurra Creek, Ningbing Ranges, north of Kununurra, W.A. (NMV paratypes F31610, Sta. WA-232, outlier just south of Tanmurra Creek, Ningbing Ranges). Paratypes: F31610(8), F31609(2).  
*cooperi*, *Pleuroxia* Cotton, 1939: 5, fig. Summit of Prism Hill, S.A. 250 ft. Paratypes: F3084(2), F30928(3).  
*confusa*, *Amplirhagada* Solem, 1981a: 280, pl. 13a, figs. 36d, 55a-b, 65a, 66b. Sta. WA-221, south of AMAX - Port Warrender Road, Mitchell Plateau, W.A. (NMV paratypes F31596, Sta. WA-398, 1.0 km north of drop-off camp area, Mitchell Plateau, W.A.). Paratypes: F31595(3 preserved), F31596(4 preserved).  
*crystalla*, *Amplirhagada alta* Solem, 1981a: 267, pl. 13f, figs. 59c-d, 61a-b. Sta. WA-3, Crystal Creek, Mitchell Plateau, north-west Kimberley, W.A. (NMV paratype Sta. WA-394, boulders south-east side of Crystal Creek, Mitchell Plateau) Paratype: F31588(1 preserved).  
*euzyga*, *Hadra* Tate, 1894: 194. Central Australia. (Holotype (SAM) and NMV paratypes: Alice Springs). Paratypes: F26921(2), F30054(3), F7614(3), F30071(1).  
*fodinalis*, *Hadra* Tate, 1892: 63, pl. 1, figs. 1a-c. Waukaringa, S.A. Syntypes: F26923(2).  
*grossum*, *Cristilabrum* Solem, 1981b: 406, pl. 18a, figs. 99a-c, 104a-b. Sta. WA-236, 1.8 km north of Four Mile Creek, south end of Ningbing Ranges, north of Kununurra, W.A. Paratypes: F31615(10).  
*hemiclausia*, *Planispira* Tate, 1894: 192. Central Australia. Paratypes: F30882(6 + fragment).  
*laurina*, *Ningbingia* Solem, 1981b: 348, pl. 15d, figs. 77a-c, 84a-b, 109c. Sta. WA-434, second peak south of No. 8 bore, north east face, north part of Ningbing Ranges north of Kununurra, W.A. Paratype: F31606(1).  
*mitchelliana*, *Amplirhagada* Solem, 1981a: 272, pl. 13b, figs. 37i, 55c-d, 61c-e, 62a-b, 64. Sta. WA-201, south of Warrender Rd. at drop-off camp area, Mitchell Plateau, W.A. (NMV paratypes: F31592, Sta. WA-205, above Camp Creek, Mitchell Plateau; F31589, F31593 Sta. WA-391, 0.8 km south-east of AMAX Camp, main road, Mitchell Plateau; F31594, F31590 Sta. WA-397, under boulders 10.2 km south east of AMAX camp, main road Mitchell Plateau). Paratypes: F31591(3), F31592(3), F31593(4), F31589(2 preserved), F31594(4), F31590(2 preserved).  
*napierana*, *Amplirhagada* Solem, 1981a: 225, pl. 14d, figs. 36b, 48a-b, 50, 51a. Sta. WA-313, 3.2 km west of Barker Gorge, south side of Napier Range, W.A. (NMV paratypes: F31578, Sta. WA-192 near Chedda Cliffs, 9.1 km from Barker River, Gorge Bank, south side Napier Range; F31580 Sta. WA-311, 5.3 km north-west of Yammerra Gap, north side Napier Range; F31581, Sta. WA-321, 12.7 km west of Barker Gorge, south side of Napier Range; F31579, Sta. WA-327, 1.6 km south-east of Wombarella Gap, south side, Napier Range; F31582 Sta. WA-382, 2.1 km north-west of Yammerra Gap, north side Napier Range; F31583, Sta. WA-401, 3.4 km north-west of Yammerra Gap, north side Napier Range. Paratypes: F31578(5), F31579(3), F31580(3), F31581(3), F31582(3), F31583(3).  
*nimberlinus*, *Prymnbriareus* Solem, 1981b: 421, pl. 18d-f, figs. 107a-c, 108a-b, 109f. Sta. WA-225, Nimberline area, 7.3 km from El Questro Homestead toward main road, south-west of Wyndham, W.A. Paratypes: F31619(1).



*octavo*, Ningbingia Solem, 1981b: 345, pl. 15c, figs. 76a-f, 82a-c, 83a-b, 109b. Sta. WA-426, east face of large hill just south of No. 8 bore at low cave entrance, north-end Ningbing Ranges, north of Kununurra, W.A. (NMV paratypes F31604, Sta. WA-434, second peak south of No. 8 bore, north-east face in wash channel, Ningbing Ranges). Paratypes: F31605(3 preserved), F31604(3).  
*popendetta*, Meliobba Clench & Turner, 1962: 26, pl. 2, figs. 1, 3, 6, 8. Mammoo Estate, near Popengetta (about 12 miles S.W. of Buna), Papua. 80°46'S., 148°19'E. (NMV paratypes: Popengetta). Paratypes: F12755(9).  
*primum*, Cristilabrum Solem, 1981b: 402, pl. 17c-f, figs. 98a-c, 103a-b. Sta. WA-226, Limestone hill 4.3 km south of Ningbing Bore, south end of Ningbing Ranges, north of Kununurra, W.A. (NMV paratypes F31614, Sta. WA-432, at gate ca. 200 yd south of Sta. WA-226). Paratypes: F31613(15), F31614(5).  
*res*, Ningbingia Solem, 1981b: 351, pl. 15c, figs. 78a-d, figs. 85a-b, 86, 109d. Sta. WA-230, cliffs 7 km north of Tanmurra Creek, Ningbing Ranges, north of Kununurra, W.A. (NMV paratypes F31607, Sta. WA-229). Paratypes: F31607(5).  
*setigera*, Hadra Tate, 1894: 194. Central Australia. Paratypes: F7613(3), F26899(1), F30056(1), F30070(1).  
*simplex*, Cristilabrum Solem, 1981b: 396, pl. 17b, figs. 97d-f, 102a-b. Sta. WA-235, isolated peak, 1.7 km south of Ningbing Bore, Ningbing Ranges, north of Kununurra, W.A. Paratypes: F31612(5).  
*squamulosa*, Hadra Tate, 1894: 193. Central Australia. Paratypes: F30057(2), F30074(2), F30075(1).  
*umbilicata*, Amplirhagada Solem, 1981a: 248, pl. 14c, figs. 49f-h, Sta. WA-196, 2 km east of Yammera Gap, north side of Napier Range, W.A. (NMV paratypes: F31584 Sta. WA-304, 3.2 km east of Yammera Gap; F31585 Sta. WA-310, 8.5 km north-west Windjana Gorge, north side Napier Range; F31586 Sta. WA-343, 3.6 km south-east Yammera Gap). Paratypes: F31584(6), F31585(2), F31586(3), F31587(3).  
*varia*, Amplirhagada varia Solem, 1981a: 294, pl. 13c, figs. 36c, 65b, 66a, 67a-b, 69a-d, Sta. WA-212, west of AMAX - Port Warrender Rd., at drop-off camp area, Mitchell Plateau, W.A. (NMV paratypes: F31599, Sta. WA-204, 1.6 km toward Crystal Creek from AMAX - Port Warrender Rd; F31602, Sta. WA-393, Walsh Point Rd, 1.6 km east of Crystal Creek Rd junction, Mitchell Plateau). Paratypes: F31599(3), F31600(4), F31601(3 preserved), F31602(4 preserved).  
*weaberana*, Torresitrachia Solem, 1979: 84, pl. 3a-g, 6d-f, figs. 15d, 16c. Sta. WA-239, gully 0.3 km east of track to Keep River Road, 2.3 km east of Point Spring, Weaber Ranges, north of Kununurra, North Kimberley, W.A. Paratypes: F31622(4).  
*winneckeana*, Hadra Tate, 1894: 194. Central Australia (Holotype (SAM) and NMV paratypes F30072 and F26900: Spencer Gorge). Paratypes: F30055(1 broken), F30072(1 broken), F26900(1), F20073(1).

## CLASS BIVALVIA

### Nuculidae

*brongersmai*, Nucula Bergmans, 1978: 702, figs. 59-61. Primrose Sands, Tasmania. (NMV paratypes: Corio Bay, Vic.) Paratypes: F28114(1 + 2 v.).

### Arcidae

*ambigua*, Arca Reeve, 1844: sp. 47. Syntypes: F272-3(2).  
*anomala*, Arca, Reeve, 1844: sp. 39. Probable holotype: F278. (type locality unknown; specimen label: Philippines).  
*compacta*, Arca Reeve, 1844: sp. 41. Holotype: F687.  
*pertusa*, Arca Reeve, 1844: sp. 28. Mouth of the Gambia, Africa. Possible syntypes: F144-5(2). (Neither specimen corresponds to type figure).  
*rotundicostata*, Arca Reeve, 1844: sp. 46. Syntype: F664(1)  
*vellicata*, Arca Reeve, 1844: sp. 33. Holotype: F25251.

### Limopsidae

*eucosmus*, Limopsis Verco, 1907a: 219, pl. 27 fig. 2. Off Cape Jaffa, S.A., 90 fm. (NMV paratypes: 35 mi. SW. of Neptune Is., S.A., 104 fm). Paratypes: F30971(2 v.).  
*rhomboidalis*, Lissarca Verco, 1907a: 221, pl. 27 fig. 7. Macdonnell Bay and Guichen Bay, S.A. (Holotype (SAM) and NMV paratypes: Macdonnell Bay). Paratypes: F30972(2 v.).  
*vixornata*, Limopsis Verco, 1907a: 219, pl. 27 fig. 1. East of Neptune Islands, S.A., 45 fm. (NMV paratypes: Off Beachport, S.A., 49 fm). Paratypes: F30377(2 v.).

### Glycmeridae

*flabellatus*, Pectunculus Tenison-Woods, 1878b: 61. N.E. coast Tasmania. Neotype: F671 (selected Chapman & Singleton, 1925: 45).  
*morum*, Pectunculus Reeve, 1843: sp. 40. Madagascar? Syntype: F24636(1).

### ?Manzanellidae

*concentrica*, Nuculina (Cyrilla) Verco, 1907a: 220, pl. 27 figs. 4, 4a-b. 35 miles S.W. of Neptunes, S.A., 104 fm. Paratypes: F30741-2(1 + 2 v.).

### Philobryidae

*cuboides*, Philobrya Verco, 1907a: 223, pl. 28 figs. 5-9. Backstairs Passage, S.A., 20 fm. Paratypes: F31655(2 + 2 v.).

### Mytilidae

*radians*, Dacrydium Suter, 1908: 355, pl. 27 fig. 11. 5 miles S. of Cuvier Is., New Zealand, 38 fm. Paratype: F30973(1, 1 valve broken).  
*recens*, Arcoperna Tate, 1896: 182. Port Esperance, Tas. Paratype: F13212(1 v.).  
*rhyllensis*, Modiolaria Gatliff & Gabriel, 1912b: 167, pl. 9 figs. 9, 10. Off Rhyll, Westernport, Vic. Holotype: F728.  
*scapha*, Arcoperna Verco, 1908a: 196, pl. 12 figs. 1-5. Several localities given. (Holotype (SAM) off Cape Jaffa, S.A., 90 fm. NMV paratypes: off Beachport, S.A., 110 fm). Paratypes: F31652(5 v.).  
*victoriae*, Modiola Pritchard & Gatliff, 1903b: 93, pl. 15 figs. 1, 2. Off Rhyll, Phillip Is., Westernport, Vic., 6 fm. Holotype: F625.

## Pinnidae

*tasmanica*, *Pinna* Tenison-Woods, 1876: 161. Tasmania, north coast. Lectotype: F21384A, Paralectotypes: F21384(2) (selected Rosewater, 1961: 220).

## Pectinidae

*farreri*, *Pecten* (*Chlamys*) Jones & Preston, 1904: 149. Shin-Tao, Shantung, China. Syntype: F670(1).  
*nepeanensis*, *Cyclopecten* Pritchard & Gatliff, 1904: 338, pl. 20 fig. 5. Back Beach, Point Nepean, Vic. Holotype: F558(1 v.); paratype: F531(1 v.).

## Unionidae

*froggarti*, *Lortiella* Iredale, 1934: 71, pl. 5 fig. 5, pl. 6 fig. 5. Lennard River, north W.A. Paratypes: F17038(2).  
*glenelgensis*, *Unio* Dennant, 1898: 112, pl. 4. Roseneath, Glenelg River, Vic. Holotype: F627.  
*inspecta*, *Aparthyria* Iredale, 1943: 191. Holmes Creek, 12 mi. N.E. of Darwin, N.T. (NMV paratype: Bankier's Jungle Creek, 30 mi. from Darwin, N.T.). Paratype: F17043(1).  
*monticola*, *Rugoshyria depressa* Iredale, 1934: 72, pl. 5 figs. 7 a, b, pl. 6 fig. 10. Grosse's Plain Creek, Moonbar Run, Mt. Kosciuszko, N.S.W. 3000-3500 ft. Paratypes: F17044(2).  
*narracanensis*, *Propehyridella* Cotton & Gabriel, 1932: 159, pl. 16 fig. 8. Narracan R., at Thorpedale, Gippsland, Vic. (NMV paratypes: Birregurra, Vic.). Holotype: F629; paratypes: F13734(3).

## Trigoniidae

*bednalli*, *Trigonia margaritacea* Verco, 1907a: 224, pl. 28 figs. 1-3. St. Vincents Gulf, S.A., 15-20 fm. Paratypes: F18826(2).

## Lucinidae

*gabrielii*, *Myrtaea* Chapman, 1941: 151, pl. 9 figs. 7 a, b. 33 miles east by south from Green Cape, N.S.W., 31°21'20"S., 150°29'25"E., 470 fm. Holotype: F6053(1 v.).  
*mayi*, *Lucina* Gatliff & Gabriel, 1911: 189, pl. 47 figs. 8-12. Off Point Cook, Vic., 8 fm. 'Holotype' : F726; paratypes: F30748(21 v.). Note: 'Holotype' not a pair.  
*sordida*, *Austriella* Tenison-Woods, 1881: 83, figs. 10, 11. Port Denison, Bowen, Qld. Holotype: F673(1 v.).

## Leptonidae

*frenchiensis*, *Lepton* Gatliff & Gabriel, 1916: 105, pl. 7 figs. 3, 4. Westernport, Vic. 8-10 fm. Holotype: F725(1 v.); paratype: F1452(3 v.).

## Montacutidae

*arthuri*, *Malvinasia* Cooper & Preston, 1910: 113, figs. 7, 8. Falkland Islands. Syntypes: F31272(2).  
*ceriantha*, *Montacutona* Ponder, 1971: 15, figs. 1-17. Dunwich, Stradbroke Is., Qld, in *Cerianthus* tubes on flats below Queensland University Marine Laboratory. Paratype: F27940(1).

*dromanensis*, *Montacuta* Gatliff & Gabriel, 1912b: 167, pl. 9 figs. 1-4. Dromana, Vic. Holotype: F522.  
*nitens*, *Montacuta* Gatliff & Gabriel, 1911: 191, pl. 47 figs. 7. Ocean Beach, Flinders, Vic. Holotype: F511.

## Cyamiidae

*aucklandica*, *Legrandina* Powell, 1933b: 233. Faith Harbour, Auckland Is., New Zealand. Paratypes: F30969(9 v.).  
*insulana*, *Perrierina* Powell, 1933a: 188, pl. 34 fig. 1. Off Owenga Beach, Chatham Is., New Zealand, 10 fm. Paratypes: F30970(4 v.).  
*iridescens*, *Cyamium* Cooper & Preston, 1910: 112, pl. 4 fig. 6. Falkland Islands. Syntypes: F31270(1 + 6 v.).

## Neoleptonidae

*cobbi*, *Davisia* Cooper & Preston, 1910: 11, pl. 4 figs. 9, 10. Falkland Is. Syntypes: F31269(3).

## Carditidae

*columnaria*, *Venericardia* Hedley & May, 1908: 125, pl. 25 figs. 37-40. 7 mi. E. of Cape Pillar, S.E. Tasmania, 100 fm. paratypes: F30747(2 v.).  
*mawsoni*, *Carditella* Dell, 1972: 1, figs. 7, 8. Mawson Base (NMV paratypes F23481: West Arm, Mawson). Holotype: F29531; paratypes: F29532(11), F23481(4 + 1 v.).  
*sweeti*, *Cardita* Hedley, 1899: 495, fig. 50. Funafuti Is. Holotype: F27464.  
*valida*, *Carditella* Verco, 1908b: 353, pl. 16 figs. 22-4. Encounter Bay, S.A. (NMV paratypes: Gulf St. Vincent, S.A., 20 fm). Paratypes: F31383(3 v.).  
*vincentensis*, *Carditella* Verco, 1908b: 354, pl. 16 figs. 20, 21. Gulf St. Vincent, S.A., 20 fm. Paratypes: F31647(2 v.).

## Condylocardiidae

*chapmani*, *Condylocardia* Gatliff & Gabriel, 1912b: 167, pl. 9 figs. 5-8. Off Portsea, Port Phillip, Vic. Holotype: F481(1 v.).  
*comma*, *Cuna* Verco, 1908b: 357, pl. 17 figs. 29-31. Backstairs Passage, S.A., 22 fm. (NMV paratypes: Gulf St. Vincent, S.A., 20 fm). Paratypes: F31653(1 + 2 v.).  
*compressa*, *Cuna* Hedley & May, 1908: 124, pl. 24 figs. 29-32. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F30140(2 v.).  
*edentata*, *Cuna* Verco, 1908b: 357, pl. 14 figs. 1-3. Gulf St. Vincent, S.A. Paratypes: F31654(2 + 2 v.).  
*hamata*, *Cuna* Hedley & May, 1908: 124, pl. 25 figs. 33-36. 7 mi. E. of Cape Pillar, Tas., 100 fm. Paratypes: F30141(2 v.).  
*planilirata*, *Cuna* Gatliff & Gabriel, 1911: 191, pl. 47 figs. 13-17. Between Phillip and French Is., Westernport, Vic., 5 fm. Holotype: F724; paratypes: F30137(2 v.), F30138(50+ v.), F605(5 + 1 v.).  
*praecalva*, *Cuna* Hedley, 1909: 424, pl. 36 figs. 5-8. Off the Hope Islands, north Qld, 5-8 fm. Syntypes: F600(2 v.).



## Crassatellidae

*baxteri*, *Eucrassatella cumingii* Iredale, 1936: 272. Lord Howe Is. Paratype: F2518(1 v.).  
*wardiana*, *Eucrassatella cumingii* Iredale, 1936: 271. Friday Is., Torres Strait, Qld. Paratypes: F25181(2 v.).

## Cardiidae

*australiense*, *Cardium* Reeve, 1844: sp. 24. Lectotype designated by Ponder et al., 1981: 48, in error; probable holotype in Jane Saul Collection, Cambridge, see Bishop and Way, 1976: 44. Species placed in genus *Hemidonax*; see Ponder et al., 1981.

*dampieriense*, *Acrosterigma* Wilson & Stevenson, 1977: 98, pl. 6 figs. 1-5. Port Hedland, W.A. Paratypes: F30132-3(2 v.).

*mariae*, *Acrosterigma* Wilson & Stevenson, 1977: 103, pl. 6 figs. 11-15. W. of Cape Leschenault, W.A., 50 fm. Paratype: F30134(1).

*rosemariensis*, *Acrosterigma* Wilson & Stevenson, 1977: 95, pl. 6 figs. 23-24. Rosemary Is., Dampier Archipelago, W.A. Paratype: F30135(1).

*vlamingi*, *Acrosterigma* Wilson & Stevenson, 1977: 92, pl. 6 figs. 21, 22. Mainland side of South Passage, Shark Bay, W.A. Paratype: F30136(1 v.).

## Mactridae

*victoriae*, *Zenatia* Pritchard & Gatliff, 1903b: 92, pl. 15 fig. 3. Port Albert, Vic. Holotype: F440.

## Tellinidae

*kenyoniana*, *Tellina* Pritchard & Gatliff, 1904: 339, pl. 20 figs. 1-4. Airey's Inlet, Vic. Holotype: F496. (This species now included in the genus *Gari*, family Psamobiidae.).

## Donacidae

*australiense*, *Cardium* Reeve, see under Cardiidae.

*arafurensis*, *Hemidonax* Ponder, Colman, Yonge & Colman, 1981: 51, pl. 1 figs. 6-9, figs. 1-5. Sandbar off Emery Point, N.T. Paratype: F31684(1).

*chapmani*, *Hemidonax* Gatliff & Gabriel, 1923: 10, pl. 2. San Remo, Ocean Beach, Vic. Lectotype F512a(1 v.). Paralectotypes: F512b(1 v.), F513(2 v.). Selected Ponder et al., 1981: 50.

## Semelidae

*isocles*, *Semele* Hedley, 1909: 434, pl. 38 figs. 35, 36. Hope Islands, North Qld. 5-10 fm. Syntypes: F516(2 v.).

*nasuta*, *Theora* Hedley, 1909: 435, pl. 38 figs. 37-39. Hope Islands, north Qld. Syntypes: F554(2 v.).

## Gaimardiidae

*aupouria*, *Kidderia* Powell, 1933a: 204, pl. 18 fig. 5. Takapaukura, Tom Bowling Bay, northern New Zealand. Paratypes: F31256(2).

*gemma*, *Modiolarca* Cooper & Preston, 1910: 112, fig. 4. Falkland Islands. Syntypes: F31271(1 + fragments).

## Corbiculidae

*desolata*, *Corbicula* Tate, 1886: 67, pl. 4 figs. 11 a, b. Coopers Creek at Innamincka, Central Australia. Paratypes: F30139(8 v.).

## Pisiidae

*aslini*, *Pisidium* Kuiper, 1983: 35, figs. 12, 65-69, 89. Glenelg River, left bank, at junction of Moleside Creek, Vic. Holotype: F31522; paratypes: F31523(150).

*fultoni*, *Pisidium* Kuiper, 1983: 34, figs. 74-77, 92. East Lake (North), east part of Arthur's Lake, Tas. Paratypes: F31818(4).

*peraltum*, *Pisidium* Sterki, 1900: 5. Crystal Lake, Benzie Co., Michigan, U.S.A. Syntypes: F23316(2).

*problematicum*, *Sphaerium* Gabriel, 1939: 128, pl. 4 figs. 36 a-b. Murray River, near Merbein, Vic. Holotype: F529; paratypes: F566(3 v.), F584(1 v.), F26897(16 v.), F26898(4).

*strengii*, *Pisidium* Sterki, 1902: 126. Several localities given. (NMV syntypes: Reed Lake, Michigan, U.S.A.) Syntypes: F23314(2).

*victoriana*, *Sphaerinova* Iredale, 1943: 195. Tarraville, Vic. Possible syntypes: F533(7 + 1 v.). Note: This species was based on the figure by Gabriel (1939) of *Sphaerium tasmanicum* Tenison-Woods.

## Veneridae

*foveolata*, *Psephis* Cooper & Preston, 1910: 114, fig. 11. Falkland Islands. Syntypes: F17329(1), F31268(3).

*gerrardi*, *Transennella* Abbot, 1958: 130, pl. 4 a-c. Georgetown Anchorage, Grand Cayman Is., British West Indies, 5 fm. Paratypes: F25373(1 + 2 v.).

*mistura*, *Redicirce* Iredale, 1936: 276, pl. 21 fig. 3. Sydney Harbour, N.S.W. (NMV paratypes: North-West Island, Capricorn Group, Qld). Paratypes: F19769(1 + 2 v.).

*polita*, *Katelsysia scalarina* Nielsen, 1964: 223, pl. 1 figs. 4-6. S.W. Australia, several localities given. (Holotype from Emu Point, Albany, W.A. NMV paratypes: Nornalup, W.A.). Holotype: F23499; paratypes: F23500(6).

*pythinoides*, *Circe* Tenison-Woods, 1878b: 60. Victoria. Syntypes: F674(2).

*scandularis*, *Chione* Hedley, 1909: 431, pl. 38 figs. 28, 29. Off Hope Islands, north Qld. Syntypes: F574(2 v.).

*victoriae*, *Dosinia* Gatliff & Gabriel, 1914: 96, pl. 16 figs. 17-19. Westernport, Vic., 5-10 fm. Holotype: F722; paratype: F723(1).

*victoriae*, *Tapes* Tenison-Woods, 1878b: 60. Hobsons Bay, Vic. Holotype: F668.

*wellsi*, *Paphia* Iredale, 1958: 104. Milngimbi, N.T. Paratypes: F20877(2).

## Gastrochaenidae

*frondosa*, *Gastrochaena* Cotton, 1934: 177, figs. 1, 2. Backstairs Passage, S.A., 35 fm. Paratypes: F30334(2 v.).

## Hiatellidae

*subalata*, *Saxicava* Gatliff & Gabriel, 1910: 85, pl. 19 figs. 10-12. Off Point Cook, Port Phillip, Vic., 8 fm. Holotype: F729; paratypes: F1458(7 v.), F30376(12 v.), F26894(80 v.).



## Teredinidae

*katherinae*, *Bankia* (*Liliobankia*) Clench & Turner, 1946: 18, pl. 2 figs. 1-6. Bahia, Brasil. Paratypes: F23817(2 v. + 2 pallets, preserved).

*neztalia*, *Bankia* Turner & McKoy, 1979: 467, figs. 2-9, 17-31. Wellington Harbour, New Zealand. (NMV paratypes: Mahanga Bay). Paratypes: F31685(11 preserved).

## Myochamidae

*gabrielii*, *Myadora* Macpherson, 1951b: 81, figs. 1-4. Off Rhyll, Westernport, Vic. Holotype: F5685; paratypes: F5061(15 + 1 v.).

*subalbida*, *Myadora* Gatliff & Gabriel, 1914: 94, pl. 15 figs. 14-16. Western Port, Vic., 7 fm. Holotype: F488.

## Thraciidae

*perulae*, *Thracidentula* Garrard, 1961:8, pl. 1 fig. 10. E. of Broken Bay, N.S.W., 45 fm. Paratype: F23083(1).

## Cuspidariidae

*alta*, *Cuspidaria* Verco, 1908a: 198, pl. 13 figs. 8-11. Several localities given. (Holotype (SAM) off Beachport, S.A., 110 fm. NMV paratypes: off Cape Jaffa, S.A., 90 fm). Paratypes: F31650(2 v.).

*pinna*, *Cuspidaria* Verco, 1908a: 200, pl. 13 figs. 5-7. Off Cape Jaffa, S.A., 300 fm. (NMV paratypes: 130 fm). Paratypes: F31649(2v.).

*ros*, *Cuspidaria* Verco, 1908a: 201, pl. 13 figs. 1-4. Off Cape Jaffa, S.A. (Holotype (SAM) 300 fm, NMV paratypes: 130 fm). Paratypes: F31651(2 v.).

## Clavagellidae

*veitchi*, *Brechites* (*Foegia*) Smith, 1971: 154, pl. 13 figs. 24-27. 0.4 km E. of Snapper Rock, off Cape Donnington, near Port Lincoln, S.A., 10-13 m. Holotype: F27418(preserved); paratypes: F27419(2).

## CLASS: SCAPHOPODA

### Dentaliidae

*hyperhemileuron*, *Dentalium* Verco, 1911: 217, pl. 26 figs. 3, 3a. King George Sound, W.A., 12-14 fm. Paratypes: F31687(3)

## CLASS: CEPHALOPODA

### Ommastrephidae

*gouldi*, *Ommastrephes* McCoy, 1880: 255, pls. 169, 170. Hobson's Bay, Port Phillip Bay, Vic. Holotype: F5104(preserved female).

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## Appendix - List of possible types of species described by Arthur Adams

Species marked with a dagger (†) are represented by type specimens in the BM(NH) collection.

- acuminata*, *Siphonalia* A. Adams, 1863a: 206. F31479(1)  
*alveata*, *Chrysallida* A. Adams, 1861a: 45. F31378(3)  
*amonoceras*, *Cyclostrema* A. Adams, 1863c: 73. F31501(2)  
*amphorella*, *Atys* (*Atys*) A. Adams, 1862a: 158. F31282(1)  
*analglyptum*, *Cyclostrema* A. Adams, 1863c: 73. F31483(1)  
*ariel*, *Leiostraca* A. Adams, 1861c: 239. F31375(2)  
†*asperulata*, *Dunkeria* A. Adams, 1860c: 119. F31498(1)  
*assimilis*, *Cylichna* A. Adams, 1862a: 152. F31284(2)  
*atomaria*, *Ethalia* A. Adams, 1861f: 305. F31421(1)  
*baculum*, *Cerithiopsis* A. Adams, 1861b: 130. F31785(1)  
*badia*, *Alvania* A. Adams, 1861f: 300. F31481(3)  
*balteata*, *Leiostraca* A. Adams, 1864d: 89. F31366(1)  
†*bella*, *Scaliola* A. Adams, 1860c: 120. F31520(2)  
†*bellula*, *Crossea* A. Adams, 1865: 324. F31350(1)  
*biconica*, *Odostomia* A. Adams, 1861c: 298. F31307(1)  
*bifascialis*, *Leiostraca* A. Adams, 1864d: 88. F31368(1)  
*bifasciata*, *Setia* A. Adams, 1861d: 136. F31454(1)  
†*brenda*, *Chrysallida* A. Adams, 1860c: 478. F31492(1)  
*caelata*, *Alvania* A. Adams, 1861d: 137. F31415(3)  
†*cana*, *Odostomia* A. Adams, 1860g: 417. F31412(2)  
*candida*, *Dunkeria* A. Adams, 1861f: 301. F31486(3)  
†*candida*, *Ethalia* A. Adams, 1862c: 296. F31517(2)  
*candida*, *Setia* A. Adams, 1861d: 136. F31456(2)  
*casta*, *Chrysallida* A. Adams, 1861f: 301. F31485(1)  
*casta*, *Leiostraca* A. Adams, 1861c: 240. F31376(1)  
*castanea*, *Elusa* A. Adams, 1862d: 237. F31409(1)  
†*cereum*, *Styloptygma* A. Adams, 1862d: 236. F31400(1)  
*chrysallida*, *Eulima* A. Adams, 1861f: 127. F31298(1)  
*cineta*, *Assiminia* A. Adams, 1861f: 307. F31459(3)  
*cinctella*, *Leiostraca* A. Adams, 1864d: 89. F31361(3)  
*cingulata*, *Cerithiopsis* (*Seila*) A. Adams, 1861b: 131. F31545(1)  
†*cinnamomea*, *Elusa* A. Adams, 1862d: 237. F31408(1)  
*circinata*, *Alvania* A. Adams, 1861d: 137. F31460(2)  
†*circinata*, *Cingulina* A. Adams, 1860g: 414. F31414(1)  
*circumcincta*, *Leiostraca* A. Adams, 1864d: 88. F31388(2)  
*clara*, *Leiostraca* A. Adams, 1861b: 129. F31394(2)  
*clavella*, *Leiostraca* A. Adams, 1861b: 129. F31393(1)  
*clavula*, *Cerithiopsis* A. Adams, 1861b: 130. F31502(2)  
*clavula*, *Eulima* A. Adams, 1861b: 125. F31301(1)  
†*commoda*, *Helix* (*Fruticicola*) A. Adams, 1868: 464. F31543(1)  
*concinna*, *Siphonalia* A. Adams, 1863a: 204. F31465(1)  
†*concinnum*, *Trophon* A. Adams, 1862c: 375. F31343(2)  
*conella*, *Helix* (*Plectotropis*) A. Adams, 1868: 465. F31529(1)  
*consimilis*, *Chrysallida* A. Adams, 1861a: 44. F31811(2)  
*consobrina*, *Cylichna* A. Adams, 1862a: 152. F31278(2)  
*conspurcata*, *Leiostraca* A. Adams, 1864d: 87. F31404(1)  
*constantia*, *Leiostraca* A. Adams, 1861c: 240. F31352(1)  
*cornea*, *Crenella* A. Adams, 1862b: 229. F31451(1v)  
*cornea*, *Diala* A. Adams, 1861c: 243. F31487(3)  
†*crassula*, *Leiostraca* A. Adams, 1864d: 90. F31390(1)  
*curvata*, *Eulima* A. Adams, 1861b: 125. F31306(3)  
†*cylindrella*, *Syrnola* A. Adams, 1862d: 234. F31360(2)  
*cylindrella*, *Volvula* A. Adams, 1862a: 155. F31277(3)  
*daedala*, *Microstelma* A. Adams, 1863c: 348. F31515(1)  
*daedala*, *Syrnola* A. Adams, 1862d: 235. F31344(1)  
*debilis*, *Eulima* A. Adams, 1861b: 127. F31422(2)  
†*decorata*, *Lacuna* (*Epheria*) A. Adams, 1861f: 304. F31461(1)  
*decussata*, *Cyrella* A. Adams, 1862c: 295. F31518(1v)  
*decussata*, *Pyrgulina* A. Adams, 1864c: 5. F31450(1)  
†*diadema*, *Parthenia* A. Adams, 1860c: 479. F31493(1)  
*diaphana*, *Ebala* A. Adams, 1861a: 43. F31503(1)  
*eburnea*, *Eulima* A. Adams, 1861b: 127. F31427(1)  
*egregia*, *Onoba* A. Adams, 1863c: 349. F31466(3)  
*elata*, *Odostomia* A. Adams, 1860d: 20. F31398(2)  
*elegans*, *Odostomia* (*Evalea*) A. Adams, 1860d: 22. F31541(2)  
*elegantula*, *Chrysallida* A. Adams, 1860c: 478. F31474(2)  
†*elegantula*, *Onoba* A. Adams, 1861d: 136. F31458(2)  
*elliptica*, *Atys* (*Sao*) A. Adams, 1862a: 160. F31280(3)  
*erucella*, *Chrysallida* A. Adams, 1864c: 3. F31309(1)  
*exigua*, *Leiostraca* A. Adams, 1864d: 87. F31369(2)  
*felina*, *Alaba* A. Adams, 1862c: 297. F31510(3)  
*fenestrata*, *Parthenia* A. Adams, 1860g: 415. F31496(1)  
*ferruginea*, *Alvania* A. Adams, 1861d: 138. F31530(4). F31420(3)  
*ferruginea*, *Dunkeria* A. Adams, 1860g: 421. F31497(2)  
*filocincta*, *Chrysallida* A. Adams, 1864c: 2. F31320(2)  
*fimbriatulum*, *Trophon* A. Adams, 1862c: 375. F31342(1)  
*flexa*, *Eulima* A. Adams, 1861b: 126. F31424(2)  
*folliculus*, *Atys* (*Sao*) A. Adams, 1862a: 160. F31279(2)  
*gemma*, *Chrysallida* A. Adams, 1861f: 302. F31484(3)  
*gibba*, *Stenothyra* A. Adams, 1861f: 308. F31540(3)  
*gibbosula*, *Eulima* A. Adams, 1861c: 239. F31315(3)  
*gibbum*, *Styloptygma* A. Adams, 1862d: 236. F31544(3)  
†*goniochila*, *Styliferina* A. Adams, 1860g: 335. F31471(2)  
†*goniostoma*, *Odostomia* A. Adams, 1860g: 416. F31519(3)  
*gracilienta*, *Leiostraca* A. Adams, 1864d: 89. F31364(1)  
*gracillima*, *Syrnola* A. Adams, 1860b: 405. F31357(1)  
*grisea*, *Siphonalia* A. Adams, 1863a: 205. F31480(1)  
*hastata*, *Leiostraca* A. Adams, 1864d: 85. F31370(1)  
†*hyalina*, *Odostomia* A. Adams, 1861a: 42. F31336(2)  
*imbricata*, *Alaba* A. Adams, 1862c: 297. F31509(1)  
*inconspicua*, *Chrysallida* A. Adams, 1861f: 301. F31324(3)  
*inflata*, *Alaba* A. Adams, 1862c: 297. F31508(3)  
*inflata*, *Lacuna* A. Adams, 1861f: 304. F31455(1)  
*interrupta*, *Leiostraca* A. Adams, 1864d: 89. F31372(2)  
*japonica*, *Cylichna* A. Adams, 1862a: 150. F31289(2)  
*japonica*, *Helicina* A. Adams, 1861d: 141. F31462(2)  
*japonica*, *Lachesis* A. Adams, 1860b: 411. F31476(1)  
*labiata*, *Leiostraca* A. Adams, 1861b: 129. F31396(1)  
*lanceata*, *Leiostraca* A. Adams, 1861b: 128. F31348(2)  
*larvula*, *Styloptygma* A. Adams, 1862d: 236. F31406(1)  
*latifasciata*, *Lacuna* A. Adams, 1863d: 350. F31481(3)  
*latiuscula*, *Cylichna* A. Adams, 1862a: 151. F31275(2)  
*leachii*, *Leiostraca* A. Adams, 1861b: 128. F31397(3)  
†*lendix*, *Styloptygma* A. Adams, 1862d: 236. F31413(1)  
*lentiginosa*, *Leiostraca* A. Adams, 1861c: 240. F31374(4)  
*lepida*, *Leiostraca* A. Adams, 1864d: 85. F31405(3)  
*lepidula*, *Lacuna* (*Epheria*) A. Adams, 1863d: 350. F31482(1)  
†*lirata*, *Odostomia* (*Evalea*) A. Adams, 1860g: 418. F31495(1)  
*littoralis*, *Parthenia* A. Adams, 1861a: 42. F31358(2)



*lucida*, *Alaba* A. Adams, 1862c: 297. F31507(1)  
*†lucidum*, *Teinostoma* A. Adams, 1863b: 267. F31532(1)  
*lutea*, *Assiminia* A. Adams, 1861f: 307. F31359(3)  
*manchurica*, *Cecina* A. Adams, 1861f: 308. F31463(3)  
*maria*, *Leiostraca* A. Adams, 1861e: 240. F31373(2)  
*mariella*, *Alvania* A. Adams, 1861d: 138. F31419(2)  
*mera*, *Syrnola* A. Adams, 1860f: 334. F31347(1)  
*metula*, *Chrysallida* A. Adams, 1860c: 478. F31317(1)  
*metulina*, *Leiostraca* A. Adams, 1864d: 86. F31389(1)  
*†miranda*, *Crossea* A. Adams, 1865: 323. F31353(2)  
*mirifica*, *Onoba* A. Adams, 1863c: 348. F31467(3)  
*monocycla*, *Parthenia* A. Adams, 1860c: 479. F31436(2)  
*mumia*, *Chrysallida* A. Adams, 1861a: 45. F31337(2)  
*munda*, *Siphonalia* A. Adams, 1863a: 206. F31356(1)  
*mundula*, *Chrysallida* A. Adams, 1861f: 302. F31300(2)  
*mundula*, *Eulima* A. Adams, 1861b: 125. F31426(2)  
*nana*, *Chrysallida* A. Adams, 1861a: 45. F31319(2)  
*nana*, *Leiostraca* A. Adams, 1864d: 87. F31371(2)  
*nana*, *Odostomia* A. Adams, 1860d: 21. F31322(2)  
*neglecta*, *Odostomia* A. Adams, 1860g: 417. F31341(3)  
*nitida*, *Ethalia* A. Adams, 1863b: 266. F31435(2)  
*nitida*, *Leiostraca* A. Adams, 1861b: 129. F31392(1)  
*†nivea*, *Leiostraca* A. Adams, 1861b: 129. F31395(1)  
*nivea*, *Odostomia* A. Adams, 1860g: 416. F31304(3)  
*nixa*, *Leiostraca* A. Adams, 1861b: 128. F31385(1)  
*oberon*, *Leiostraca* A. Adams, 1861e: 240. F31399(1)  
*ocellata*, *Alcyna* A. Adams, 1860b: 408. F31542(1).  
F31340(1)  
*odontoidea*, *Eulima* A. Adams, 1861b: 127. F31303(1)  
*omphalotropis*, *Ethalia* A. Adams, 1863b: 266. F31434(2)  
*orthochila*, *Styliferina* A. Adams, 1860f: 335. F31786 (2  
specimens, mixed lot)  
*†ovalis*, *Auriculina* A. Adams, 1861a: 42. F31425(1)  
*ovoidea*, *Odostomia* A. Adams, 1860g: 416. F31411(1)  
*ovulina*, *Volvula* A. Adams, 1862a: 155. F31285(1)  
*pagodula*, *Cerithiopsis* A. Adams, 1861b: 131. F31473(1)  
*†pagodula*, *Parthenia* A. Adams, 1860g: 415. F31311(2)  
*pandata*, *Eulima* A. Adams, 1861b: 126. F31305(2)  
*parallela*, *Cylichna* A. Adams, 1862a: 152. F31290(1)  
*†patula*, *Onoba* A. Adams, 1863c: 349. F31469(3)  
*paxillus*, *Cerithiopsis* A. Adams, 1861b: 131. F31513(1)  
*paxillus*, *Leiostraca* A. Adams, 1861b: 129. F31349(2)  
*†perspicua*, *Ethalia* A. Adams, 1861f: 306. F31417(2)  
*phiala*, *Atys* (*Sao*) A. Adams, 1862a: 160. F31287(4)  
*picta*, *Diala* A. Adams, 1861e: 243. F31488(3)  
*picturata*, *Leiostraca* A. Adams, 1864d: 87. F31391(1)  
*pinguicula*, *Eulima* A. Adams, 1861b: 125. F31297(2)  
*pistillum*, *Leiostraca* A. Adams, 1864d: 86. F31401(1)  
*pistillum*, *Syrnola* A. Adams, 1862d: 234. F31346(1)  
*†plicata*, *Chrysallida* A. Adams, 1860c: 478. F31321(2)  
*†polita*, *Ethalia* A. Adams, 1862c: 296. F31314(1)  
*procera*, *Rissoa* (*Goniostoma*) A. Adams, 1861d: 136.  
F31787(1)  
*producta*, *Odostomia* A. Adams, 1860g: 416. F31494(1)  
*proxima*, *Cylichna* A. Adams, 1862a: 151. F31288(2)  
*pumila*, *Cylichna* A. Adams, 1862a: 153. F31274(1)  
*pumila*, *Leiostraca* A. Adams, 1864d: 87. F31363(2)  
*punctigera*, *Parthenia* A. Adams, 1860g: 415. F31430(4)  
*punctulata*, *Atys* (*Roxania*) A. Adams, 1862a: 158.  
F31283(1)  
*†pupa*, *Odostomia* A. Adams, 1860d: 21. F31339(3)  
*pupiformis*, *Rissoa* (*Goniostoma*) A. Adams, 1860b: 411.  
F31410(1)  
*†pupina*, *Syrnola* A. Adams, 1860f: 334. F31323(1)  
*†pupoides*, *Finella* A. Adams, 1860f: 336. F31512(1)  
*pupula*, *Chrysallida* A. Adams, 1861a: 44. F31312(2)  
*†pura*, *Leiostraca* A. Adams, 1861b: 129. F31538(2)  
*pusilla*, *Leiostraca* A. Adams, 1864d: 86. F31539(2)  
*pusio*, *Leiostraca* A. Adams, 1864d: 86. F31402(1)  
*pusio*, *Velutina* A. Adams, 1860b: 411. F31514(1)  
*pygmaea*, *Leiostraca* A. Adams, 1864d: 86. F31387(2)  
*†pygmaea*, *Odostomia* A. Adams, 1860d: 21. F31355(3)  
*†pyramis*, *Odostomia* (*Evalea*) A. Adams, 1860d: 22.  
F31433(1)  
*pyrgula*, *Gottolina* A. Adams, 1863f: 113. F31452(2)  
*radiola*, *Volvula* A. Adams, 1862a: 155. F31291(2)  
*reclinata*, *Eulima* A. Adams, 1861b: 126. F31428(1)  
*robusta*, *Eulima* A. Adams, 1861b: 125. F31296(2)  
*rosea*, *Cerithiopsis* A. Adams, 1861b: 130. F31505(3)  
*rostratus*, *Leptoconchus* A. Adams, 1864b: 310.  
F31489(2)  
*rufolineata*, *Chrysallida* A. Adams, 1864b: 3. F31362(2)  
*rugata*, *Naera* (*Rhinomya*) A. Adams, 1864a: 207.  
F31490(3)  
*scalina*, *Odostomia* A. Adams, 1860d: 20. F31367(1)  
*scintillaris*, *Ebala* A. Adams, 1861a: 44. F31504(2)  
*scitula*, *Alvania* A. Adams, 1861f: 300. F31416(4)  
*scitula*, *Eulima* A. Adams, 1861b: 128. F31308(3)  
*†scitula*, *Iole* A. Adams, 1860a: 300. F31521(2)  
*scitula*, *Leiostraca* A. Adams, 1864d: 90. F31365(1)  
*scrobiculata*, *Atys* (*Atys*) A. Adams, 1862a: 158.  
F31276(1)  
*secalina*, *Atys* (*Alicula*) A. Adams, 1862a: 159. F31293(2)  
*semicostata*, *Alvania* A. Adams, 1861d: 137. F31316(1)  
*semiplicata*, *Chrysallida* A. Adams, 1860c: 478.  
F31475(1)  
*semitorta*, *Eulima* A. Adams, 1861b: 126. F31472(1)  
*†sobrina*, *Ethalia* A. Adams, 1861f: 306. F31478(2)  
*speciosa*, *Sarepta* A. Adams, 1860a: 303. F31310(2 + 2  
v.).  
*spectabilis*, *Volvula* A. Adams, 1862a: 154. F31286(3)  
*spiculum*, *Leiostraca* A. Adams, 1861b: 129.  
F31377(fragment)  
*spirata*, *Onoba* A. Adams, 1863c: 348. F31464(1)  
*spirata*, *Parthenia* A. Adams, 1860g: 414. F31354(2)  
*spretta*, *Leiostraca* A. Adams, 1864d: 90. F31500(2)  
*subangulata*, *Alaba* A. Adams, 1862c: 298. F31506(1)  
*subdiaphana*, *Odostomia* A. Adams, 1860g: 417.  
F31537(1)  
*subula*, *Eulima* A. Adams, 1861e: 239. F31313(1)  
*subulina*, *Onoba* A. Adams, 1861f: 299. F31477(2)  
*subulina*, *Syrnola* A. Adams, 1862d: 234. F31345(2)  
*succinata*, *Tornatina* A. Adams, 1862a: 154. F31295(1)  
*sulcata*, *Huxleyia* A. Adams, 1860a: 303. F31491(2 v.)  
*sulcata*, *Odostomia* (*Evalea*) A. Adams, 1860g: 417.  
F31432(1)  
*sulcifera*, *Gottolina* A. Adams, 1863f: 112. F31453(2)  
*taeniata*, *Leiostraca* A. Adams, 1864d: 88. F31757(2)  
*†taeniatum*, *Styloptygma* A. Adams, 1862d: 235.  
F31407(1)  
*†tantilla*, *Leiostraca* A. Adams, 1864d: 89. F31386(1)  
*†tantilla*, *Pyrgulina* A. Adams, 1864c: 5. F31449(2)  
*†tenera*, *Odostomia* A. Adams, 1860d: 21. F31431(2)  
*tenuicula*, *Chrysallida* A. Adams, 1861i: 302. F31325(2)  
*teres*, *Elusa* A. Adams, 1861e: 297. F31429(1)  
*teretiuncula*, *Syrnola* A. Adams, 1860f: 334. F31338(2)

*titania*, *Leiostraca* A. Adams, 1861e: 240. F31351(2)  
*translucens*, *Atys (Alicula)* A. Adams, 1862a: 159. F31294(2)  
*turgidula*, *Leiostraca* A. Adams, 1861b: 128. F31423(2)  
*turrita*, *Lacuna* A. Adams, 1861f: 305. F31457(2)  
*valida*, *Eulima* A. Adams, 1861b: 127. F31302(1)  
*varia*, *Diala* A. Adams, 1861e: 243. F31299(4)

*variegata*, *Balea* A. Adams, 1868: 469. F31499(2)  
*venustula*, *Cylichna* A. Adams, 1862a: 151. F31281(3)  
*vestalis*, *Ebala* A. Adams, 1860e: 119. F31511(1)  
*vincta*, *Leiostraca* A. Adams, 1864d: 88. F31403(3)  
*virginea*, *Ebala* A. Adams, 1860e: 119. F31470(1)  
*volvulina*, *Atys (Alicula)* A. Adams, 1862a: 159. F31292(2).







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